

MODEL 94076-4

# **DRAG SLASH™**

**TRAXXAS**  
OWNER'S MANUAL

# INTRODUCTION

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Thank you for purchasing the Drag Slash equipped with the Velineon® Brushless Power System and the Heavy-Duty Pro Series Magnum 272R™ transmission. The Velineon system is paired with optimized gearing to take advantage of the maximum torque output from the Velineon 3500 motor. The VXL-3s speed control delivers strong, reliable muscle to lay down the quickest passes, run after run. The Magnum 272R transmission features a blue-anodized aluminum motor plate, all-metal gears, and a sealed silicone-filled 4-gear differential tuned specifically for drag racing. We are confident you will be rewarded with high-speed performance in a durable, long-lasting product.

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, 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 will allow you to unlock the performance potential that Traxxas engineers designed into your model. Also be sure to read and follow the precautions and warnings in this manual and on any labels or tags attached to your model. They are there to educate you on how to operate your model safely and also get maximum life and performance from your 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.

**Operation Frequency:** 2414~2453 MHz

**Maximum Radio Frequency Power:** Maximum Peak Power 9.7 dBm

#### 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.



Even if you are a beginner, please **read and follow the procedures in this manual.**

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

## 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/support](https://www.traxxas.com/support). You may also e-mail customer support with your question at [support@traxxas.com](mailto:support@traxxas.com). Join thousands of registered members in our online community at [Traxxas.com](https://www.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](https://www.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!

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

Internet  
[Traxxas.com](https://www.traxxas.com)  
E-mail: [support@traxxas.com](mailto:support@traxxas.com)

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## 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.



Previous experience with radio controlled models is mandatory. Model requires detailed setup, and/or maintenance procedures with required support equipment. This model is capable of very high speeds and requires an even higher level of skilled driving control.

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 outlined in this manual 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 your Traxxas speed control will damage the ESC and void the 30-day warranty.
- **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 Traxxas Power Cell NiMH Batteries

Traxxas strongly encourages you to recycle Power Cell NiMH batteries when they reach the end of their useful life. Do not throw batteries in the trash. All Power Cell 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](http://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:

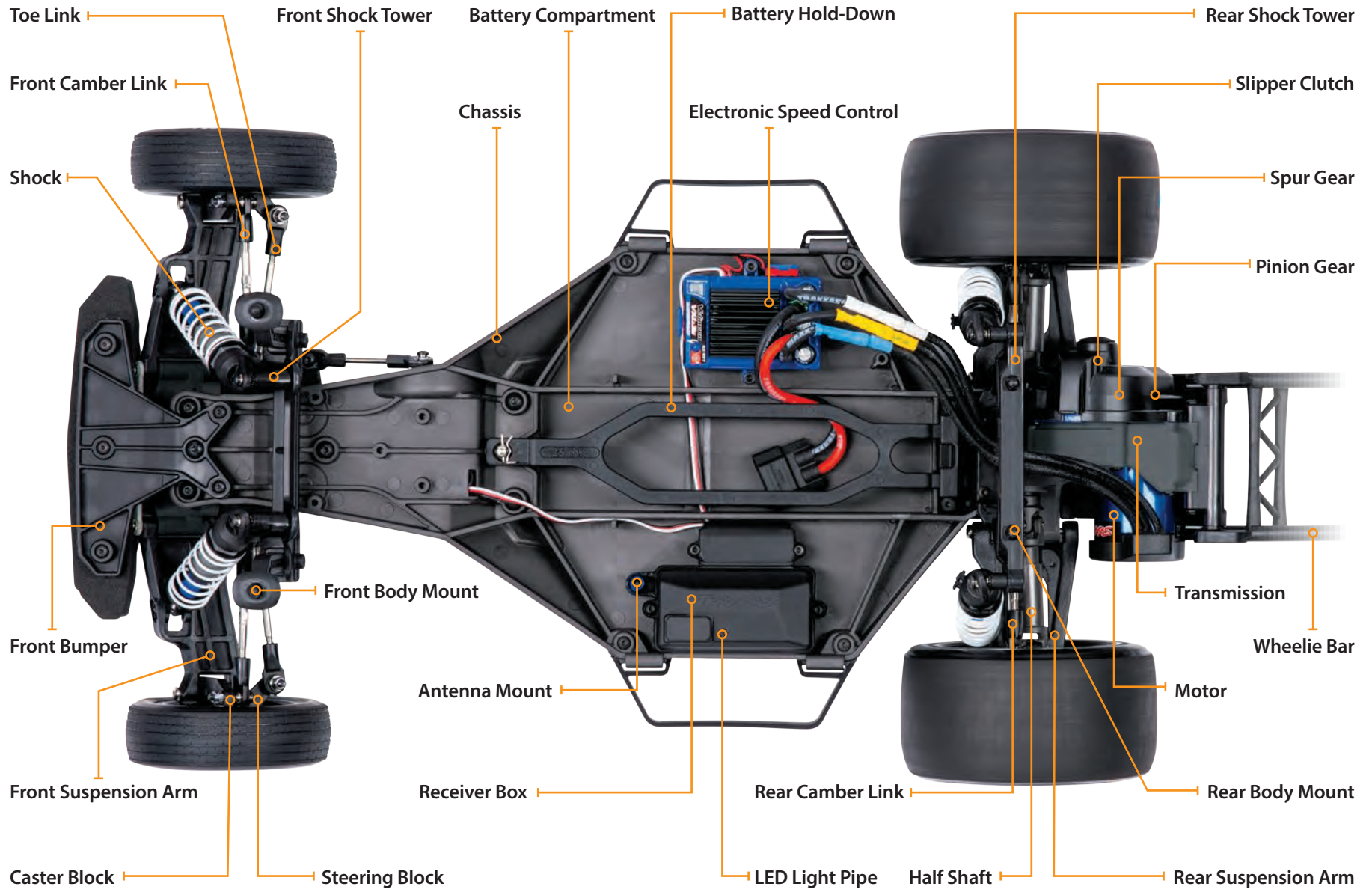
- BEFORE you charge, ALWAYS confirm that the charger settings exactly match the type (chemistry), specification, and configuration of the battery to be charged. DO NOT exceed the maximum manufacturer recommended charge rate.
- DO NOT attempt to charge non-rechargeable batteries (explosion hazard), batteries 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.
- 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.

(continued on next page)

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- 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.
- 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.
- 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.

# ANATOMY OF THE DRAG SLASH



## TOOLS, SUPPLIES, AND REQUIRED EQUIPMENT



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

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



2.5mm "L" wrench



2.0mm "L" wrench



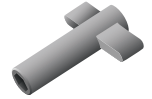
1.5mm "L" wrench



Turnbuckle wrench



4-way wrench



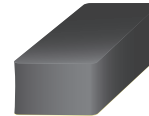
Antenna nut wrench



Optional pinion gear



Body clips and body washers



Foam battery spacer



Preload spacers and shock pistons

### Required Equipment

Use the Traxxas 2s 7600mAh LiPo battery pack (part #2869X) for best 2s drag performance



### 6 or 7-cell NiMH battery pack, or 2s or 3s LiPo battery pack, with Traxxas High-Current connector

Traxxas Power Cell LiPo iD® batteries are strongly recommended for maximum performance and safer charging



EZ-Peak® Dual (part #2972)

### Traxxas iD battery charger

Traxxas recommends you choose a genuine Traxxas EZ-Peak® iD charger for safer charging, maximum battery life, and performance



### 4 AA alkaline batteries

\*Battery and charger style are subject to change and may vary from images.



## QUICK START: GETTING UP TO SPEED

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 starting on page 4**

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

**2. Charge the battery pack • See page 13**

Your model requires a battery pack and a compatible battery charger (not included). Never use a NiMH or NiCad charger to charge LiPo batteries.

**3. Install batteries in the transmitter • See page 13**

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

**4. Install the battery pack in the model • See page 14**

Your model requires a fully charged battery pack (not included).

**5. Turn on the radio system • See page 15**

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

**6. Check servo operation • See page 16**

Make sure the steering servo is working correctly.

**7. Range test the radio system • See page 16**

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

**8. Detail your model • See sidebar, page 10**

Apply other decals if desired.

**9. Drive your model • See page 20**

Driving tips and adjustments for your model.

**10. Maintaining your model • See page 29**

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



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.

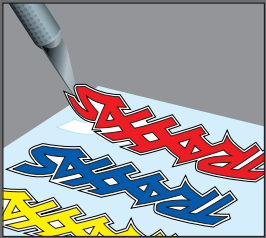
Look for the Quick Start logo at the bottom of Quick Start pages.



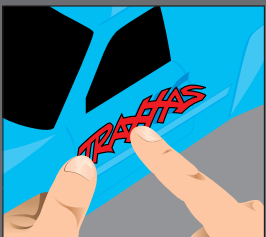


## Applying the Decals

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.



## INTRODUCTION

Your model includes the latest Traxxas TQi 2.4GHz transmitter with Traxxas Link™ Model Memory. The transmitter's easy-to-use design provides instant driving fun for new R/C enthusiasts, and also offers a full complement of pro-level tuning features for advanced users – or anyone interested in experimenting with the performance of their model. The steering and throttle channels feature adjustable Exponential, End Points, and Sub-Trims. Steering and braking Dual-Rate are also available. Many of the next-level features are controlled by the Multi-Function knob, which can be programmed to control a variety of functions. The detailed instructions (page 28) and Menu Tree (page 31) included in this manual will help you understand and operate the advanced functions of the new TQi radio system. For additional information and how-to videos, visit [Traxxas.com](http://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. A detailed explanation of the advanced terminology and features of your new radio system begins on page 28.

**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 TQi system automatically selects and locks onto an open frequency and offers 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.

**Brushless Motor** - A D/C brushless motor replaces the brushed motor's traditional commutator and brush arrangement with intelligent electronics that energize the electromagnetic windings in sequence to provide rotation. Opposite of a brushed motor, the brushless motor has its windings (coils) on the perimeter of the motor can and the magnets are mounted to the spinning rotor shaft.

**Cogging** - Cogging is a condition sometimes associated with brushless motors. Typically, it is a slight stutter noticed when accelerating from a stop. It happens for a very short period as the signals from the electronic speed control and the motor

synch with each other. The VXL-3s electronic speed control is optimized to virtually eliminate cogging.

**Current** - Current is a measure of power flow through the electronics, usually measured in amps. If you think of a wire as 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. The VXL-3s electronic speed control uses advanced circuitry to provide precise, digital proportional throttle control. Electronic speed controls use power more efficiently than mechanical speed controls so that the batteries run longer. An electronic speed control also has circuitry that prevents loss of steering and throttle control as the batteries lose their 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.

**Kv Rating** - Brushless motors are often rated by their Kv number. The Kv rating equals no-load motor rpm with 1 volt applied. The Kv increases as the number of wire turns in the motor decreases. As the Kv increases, the current draw through the electronics also increases. The Velineon 3500 motor is a 3500 Kv motor optimized for the best speed and efficiency in lightweight 1/10 scale models.

**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. LiPo battery packs are 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. The Velineon power system is optimized to reduce electrical resistance and the resulting power-robbing heat.

**Rotor** - The rotor is the main shaft of the brushless motor. In a brushless motor, the magnets are mounted to the rotor, and the electromagnetic windings are built into the motor housing.

**Sensored** - Sensored refers to a type of brushless motor that uses an internal sensor in the motor to communicate rotor position information back to the electronic speed control. The VXL-3s electronic speed control is able to use sensored motors when applications benefit from them (such as some sanctioned racing classes).

**Sensorless** - Sensorless refers to a brushless motor that uses advanced instructions from an electronic speed control to provide smooth operation. Additional motor sensors and wiring are not required. The VXL-3s electronic speed control is optimized for smooth sensorless control.

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

**Solder Tabs** - Accessible, external contacts on the motor that allows for easy wire replacement. The Velineon 3500 is equipped with solder tabs.

**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 throttle and steering trim knobs on the face of the transmitter. **Note:** *The Multi-Function knob must be programmed to serve as a throttle trim adjustment.*

**Thermal Shutdown Protection** - Temperature sensing electronics used in the VXL-3s 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 TQi 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.

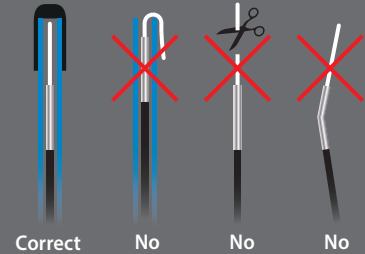
**Voltage** - Voltage is a measure of the electrical potential difference between two points, such as between the positive battery terminal and ground. Using the analogy of the garden hose, while current is the quantity of water flow in the hose, voltage corresponds to the pressure that is forcing the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

#### IMPORTANT RADIO SYSTEM PRECAUTIONS

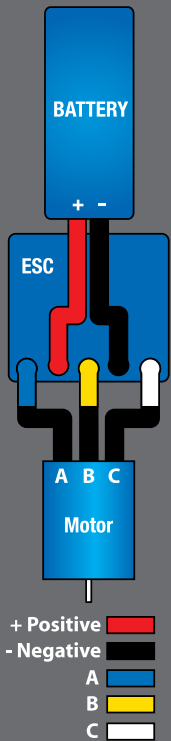
- Do not kink the receiver’s antenna wire. Kinks in the antenna wire will reduce range.
- DO NOT CUT any part of the receiver’s antenna wire. Cutting the antenna will reduce range.
- Extend the antenna wire in the model as far as possible for maximum range. It is not necessary to extend the antenna wire out of the body, but wrapping or coiling the antenna wire should be avoided.
- Do not allow the antenna wire to extend outside the body without the protection of an antenna tube, or the antenna wire may get cut or damaged, reducing range. It is recommended to keep the wire inside the body (in the antenna tube) to prevent the chance of damage.



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.

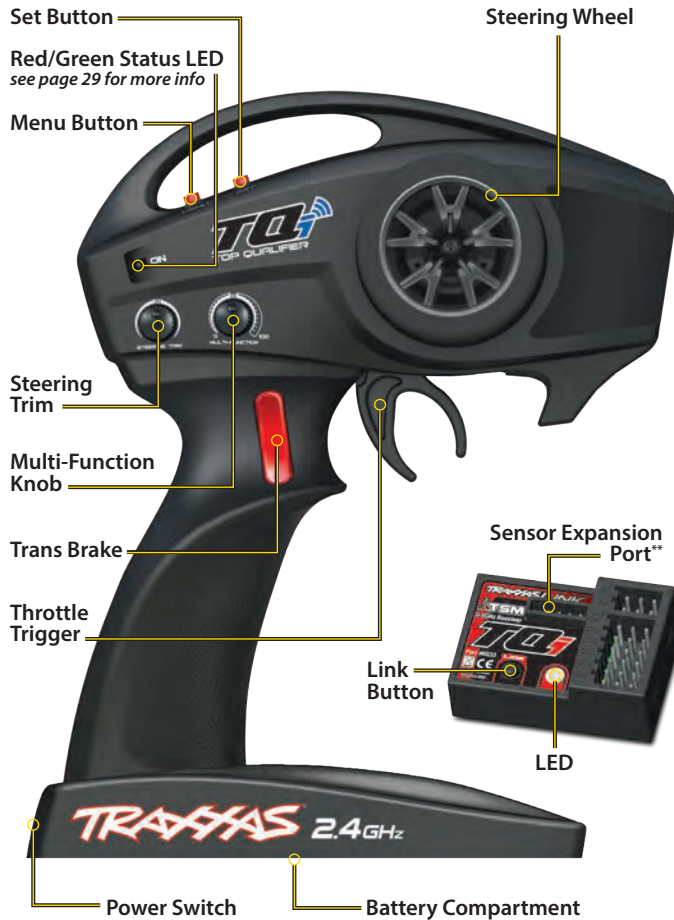


ESC/Motor Wiring Diagram



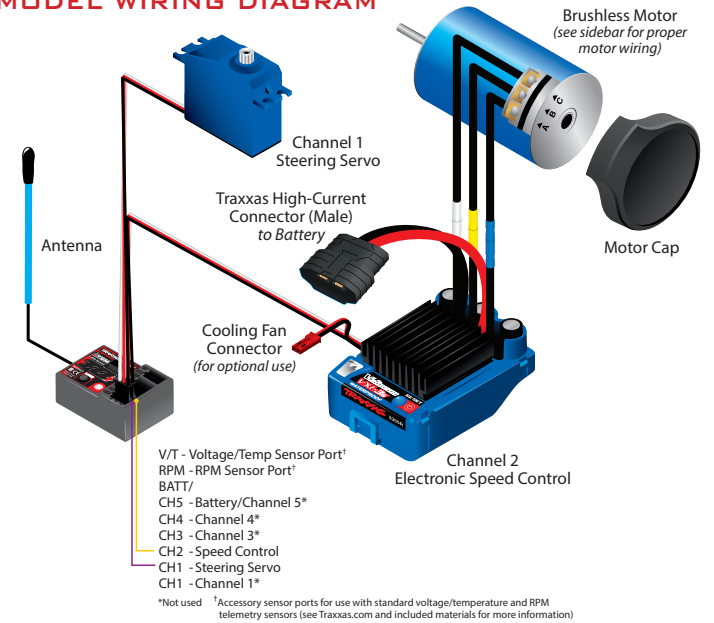
Your model is equipped with the newest TQi 2.4GHz transmitter with Traxxas Link™ Model Memory. The transmitter has two channels for controlling your throttle and steering. The receiver inside the model has 5 output channels. Your model is equipped with one servo and an electronic speed control.

TRANSMITTER AND RECEIVER

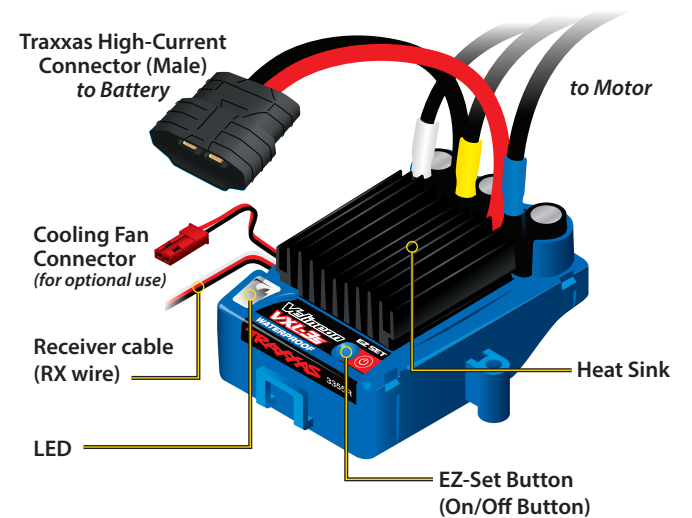


\*\*Accessory sensor port for use with the Telemetry Expander Module (see Traxxas.com for more information).

MODEL WIRING DIAGRAM



VXL-3s ELECTRONIC SPEED CONTROL



### INSTALLING TRANSMITTER BATTERIES

Your TQi 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 door and snap it closed.
4. Turn on the transmitter and check the status indicator 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 batteries. The power indicator light does not indicate the charge level of the battery pack installed in the model. Refer to the Troubleshooting section on page 31 for more information on the transmitter Status LED codes.



### SELECTING BATTERIES FOR YOUR MODEL

Your model does not include a battery or charger. One NiMH or LiPo battery equipped with a Traxxas High-Current Connector is required. Traxxas Power Cell iD batteries are strongly recommended for maximum performance and safer charging. The following chart lists all the available Power Cell batteries for your model:

#### LiPo Batteries with iD

2872X	5000mAh 11.1V 3-Cell 25C LiPo Battery	
2843X	5800mAh 7.4V 2-Cell 25C LiPo Battery	
2857X	6400mAh 11.1V 3-Cell 25C LiPo Battery	
2869X	7600mAh 7.4V 2-Cell 25C LiPo Battery	Recommended for optimal 2s drag racing performance
2878X	8400mAh 11.1V 3-Cell 25C LiPo Battery	
2854X	10000mAh 7.4V 2-Cell 25C LiPo Battery	

#### NiMH Batteries with iD

2923X	Battery, Power Cell, 3000mAh (NiMH, 7-C flat, 8.4V)
2940X	Battery, Series 3 Power Cell, 3300mAh (NiMH, 7-C flat, 8.4V)
2950X	Battery, Series 4 Power Cell, 4200mAh (NiMH, 7-C flat, 8.4V)
2960X	Battery, Series 5 Power Cell, 5000mAh (NiMH, 7-C flat, 8.4V)



### WARNING: FIRE HAZARD!

Users of Lithium Polymer (LiPo) batteries must read the Warnings and Precautions beginning on page 4. You MUST use a LiPo balance charger for LiPo batteries or battery damage with the potential for fire will result.

### SELECTING A CHARGER FOR YOUR MODEL

Make certain you choose the correct type of charger for the batteries you select. Traxxas recommends you choose a genuine Traxxas EZ-Peak iD charger for safer charging and maximum battery life and performance.

Charger	Part No.	NiMH Compatible	LiPo Compatible	Battery iD	Max. Cells
EZ-Peak Plus, 4 amps	2970	YES	YES	YES	3s
EZ-Peak Live, 12 amps	2971	YES	YES	YES	4s
EZ-Peak Dual, 8 amps	2972	YES	YES	YES	3s
EZ-Peak Live Dual, 26 amps	2973	YES	YES	YES	4s
EZ-Peak Plus 4s, 8 amps	2981	YES	YES	YES	4s



If the status LED doesn't light green, check the polarity of the batteries. If you see any other flashing signal from the LED, refer to the chart on page 29 to identify the code.



#### Use the Right Batteries

Your transmitter uses AA batteries. Use new alkaline batteries. Do not use rechargeable AA cells to power the TQi transmitter, as they will not provide sufficient voltage for optimum transmitter performance.

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



**Battery iD**

Traxxas recommended battery packs are 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](http://Traxxas.com) to learn more about this feature and available Traxxas iD chargers and batteries.

**Battery Compartment Specs:**

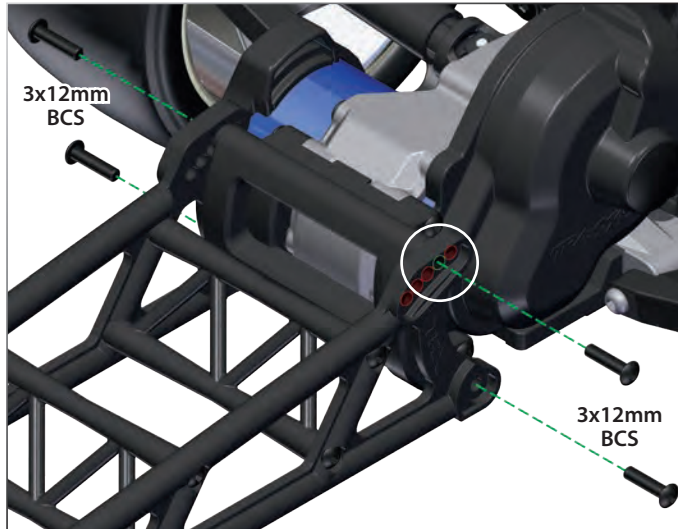
- 166mm (6.54") long x 49.5mm (1.95") wide
- Height with stock strap: 23mm (.91") or 25mm (.94")
- Height with Part #5827X options battery standoffs: Up to 44mm (1.73")

Note: There is some flex with the battery strap. It is possible to fit slightly taller batteries in the compartment.

**INSTALLING THE WHEELIE BAR**

Attach the wheelie bar to the mount on the back of the transmission case as shown with the supplied 3x12mm button-head cap screws (4). Use the holes indicated in the illustration. The other mounting holes and included optional wheel set allow for fine tuning of the wheelie bar height.

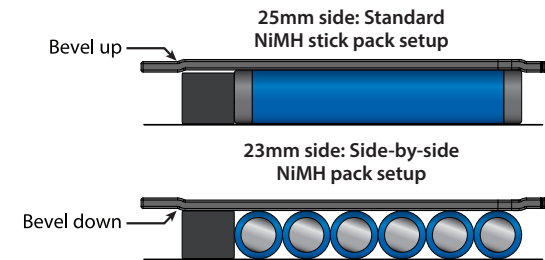
**Note:** When the wheelie bar is not necessary, the factory installed wheelie bar mount will add extra protection for the motor and transmission case.

**INSTALLING THE BATTERY PACK**

Install the battery pack with the battery wires facing the rear of the model. Insert the tabs of the battery hold-down into the slots in the rear hold-down retainer and then place the battery hold-down over the post. Secure the battery hold-down with a body clip in the hole in the post. Do not connect the battery pack yet.

**Using a Different Battery Configuration**

The battery hold-downs are capable of accommodating either side-by-side racing style packs or the more common stick packs. The battery compartments are configured for stick packs from the factory. The number on each side of the hold-down indicates the battery height in millimeters that hold-down can accommodate. Note that one side is labeled "25" and the other side is labeled "23". The 25mm side is for use with typical stick type battery packs. If you are using side-by-side racing packs, simply flip the hold-down over to the 23mm side and use it on the opposite side of the chassis. Your model includes a foam block that should be installed in front of 6-cell batteries for a more secure fit.

**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 VXL-3s. 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.



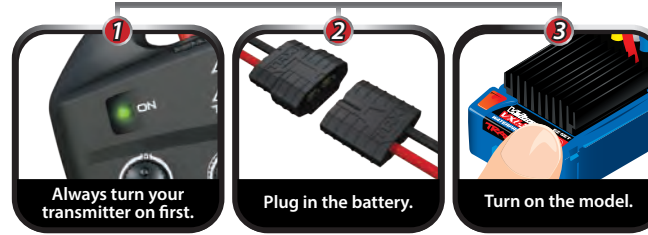
## RADIO SYSTEM CONTROLS

The transmitter is equipped with a Trans Brake button for enhanced drag racing launch control. The Trans Brake allows the driver to release the button and launch instantly at a preset amount of power, while also preventing the model from rolling until racing starts. With the throttle trigger at neutral, press and hold the Trans Brake button with your thumb. Pull the trigger to your desired throttle setting, and then release the Trans Brake button to launch the vehicle down the track.



## RADIO SYSTEM RULES

- Always turn your TQi 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 fail-safes 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 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.
- Always turn on the transmitter before plugging in the battery.

## RADIO SYSTEM BASIC ADJUSTMENTS

### Steering Trim

The electronic steering trim located on the face of the transmitter adjusts the neutral (center) point of the steering channel.

**Note:** Traxxas Stability Management (TSM) must be completely turned off while adjusting steering trim. See page 17 for TSM adjustments.



### Multi-Function Knob

The Multi-Function knob can be programmed to control a variety of functions. The default setting for the Drag Slash is Traxxas Stability Management (TSM) control. For more detail on TSM, refer to page 17.



**!** Remember, always turn the TQi transmitter on first and off last to avoid damage to your model.

**i** **Automatic Fail-Safe**  
The TQi transmitter and receiver are equipped with an automatic fail-safe system that does not require user programming. In the event of signal loss or interference, the throttle will return to neutral and the steering will hold its last commanded position. If the fail-safe system activates while you are operating your model, determine the reason for signal loss and resolve the problem before operating your model again.

**!** Stop immediately at the first sign of weak batteries. Never turn the transmitter off when the battery pack is plugged in. The model could run out of control.

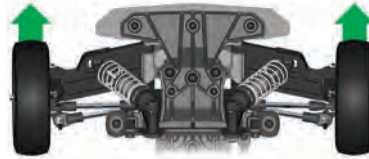


**Using Reverse:** While driving, push the throttle trigger forward to apply brakes. Once stopped, return the throttle trigger to neutral. Push the throttle trigger forward again to engage proportional reverse.

## USING THE RADIO SYSTEM

The TQi Radio System has been pre-adjusted at the factory. 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. Press and release the EZ-Set button on the speed control to turn the model on. The LED will shine RED or GREEN (see note below). To turn the VXL-3s off, press the set button until the LED turns off. **Note:** *If the model is factory equipped with LiPo batteries, the LED will be green, indicating that Low-Voltage Detection is activated. If the model is factory equipped with NiMH batteries, the LED will be red, indicating that Low-Voltage Detection is disabled. Never use LiPo batteries while Low-Voltage Detection is disabled. See page 18 for more on VXL-3s setup and operation.*
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, turn off TSM (see page 17) and slowly adjust the steering trim control on the transmitter until they are pointing straight ahead; then, return the Multi-Function knob to the desired TSM setting.
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 VXL-3s, unplug the battery from the model, then turn off 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.

## Higher Speeds Require Greater Distance

The faster you drive your Drag Slash, the more quickly it will near the limit of radio range. At 60mph, a model can cover 88 feet every second! It's a thrill, but use caution to keep your model in range. If you want to see your Drag Slash 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 Drag Slash, always leave adequate space between you, the model, and others. Never drive directly toward yourself or others.**

## TQi 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 another 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 transmitter's SET button as you switch the transmitter on. The transmitter's LED will flash red slowly. Release the SET button.
2. Press and hold the receiver's LINK button as you switch on the speed control (by pressing the EZ-Set button). Release the LINK button.
3. When the transmitter and receiver's LEDs turn solid green, the system is bound and ready for use. Confirm that the steering and throttle operate properly before driving your model.



**TRAXXAS STABILITY MANAGEMENT (TSM)**



Your vehicle is equipped with Traxxas Stability Management or TSM. This exclusive feature makes millisecond-fast steering adjustments

to help you maintain precise control during rapid acceleration and braking. TSM is turned on by default and **we recommend that you use TSM as you become familiar with driving your Drag Slash**. TSM never reduces power for acceleration and braking. The amount of TSM assistance is adjustable and controlled by the multi-function knob on your transmitter.

The Multi-Function knob on the TQi transmitter has been programmed to control TSM. The recommended (default) setting for TSM is to rotate the knob to the 12:00 position (the zero mark on the dial).



Turn the knob clockwise to increase assistance; turn the knob counterclockwise to decrease assistance. Turn the knob counterclockwise to its stop to completely disable TSM. **Note:** TSM is deactivated automatically when driving or braking in reverse.



**Note:** TSM must be completely turned off while adjusting steering trim.

For more information, visit [Traxxas.com/tsm](http://Traxxas.com/tsm).

**TSM MODES**

While we recommend leaving TSM on for fun racing, some club events do not allow electronic aids and assistance for acceleration. TSM has an exclusive **Drag Race Mode** that turns off TSM assistance for acceleration and racing, but leaves TSM on for secure, controlled braking once you cross the finish line. Braking with TSM helps the Drag Slash stop in a straight line, reducing the chance of spinning around.

**Drag Race Mode Operation:**

The model must be turned on but completely stopped with the transmitter's throttle trigger at neutral position before selecting **Drag Race Mode** (brake-only TSM).

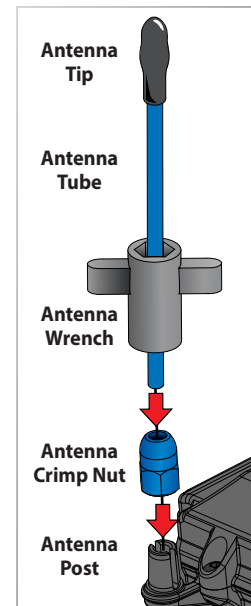
1. Turn on the model and the transmitter.
2. Remove the rubber plug from the receiver cover. The LED on the receiver will be solid green.
3. Press and hold the receiver's LINK button until the LED shines red (1 second), then immediately release the button.
4. The LED will blink green rapidly to indicate **Drag Race Mode** has been selected. The blinking LED can be used to show the race director that TSM assistance has been turned off for racing and will only operate for braking.
5. Reinstall the rubber plug in the receiver cover.
6. Repeat the steps to return the receiver to full TSM functionality for normal driving. The LED will turn solid green.



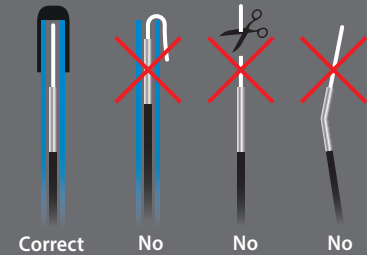
**SETTING UP THE ANTENNA**

The receiver antenna has been set up and installed from the factory.

When reinstalling the antenna, first slide the antenna wire into the bottom of the antenna tube until the white tip of the antenna is at the top of the tube under the black cap. Insert the base of the tube into the antenna post. Take care not to crimp the antenna wire. Slide the crimp nut over the antenna tube and screw it onto the antenna post. Use the supplied tool to tighten the crimp nut on the post just until the antenna tube is securely in place. Do not over tighten or crush the antenna wire against the chassis. **Do not bend or kink the antenna wire! See the sidebar for more information. Do not shorten the antenna tube. The minimum height is 62mm.**



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.





## VXL-3s Specifications

### Input voltage:

4.8-11.1V (4 to 9 cells NiMH or 2S to 3S LiPo)

### Supported Motors:

Brushless

### Motor limit:

None

### Continuous current:

200A

### Peak current :

320A

### BEC voltage:

6.0V DC

### Transistor type:

MOSFET

### Battery connector:

Traxxas High-Current Connector

### Motor connectors:

TRX 3.5mm bullet connectors

### Motor/Battery Wiring:

12-gauge Maxx® Cable

### Thermal Protection:

2-stage thermal shutdown

## VXL-3s Battery Settings (Low-Voltage Detection Setting)

The Velineon VXL-3s 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 VXL-3s will limit the power output to 50% throttle. When the battery voltage attempts to fall below the minimum threshold, the VXL-3s will shut down all motor output. The LED on the speed control will slowly blink red, indicating a low voltage shutdown. The VXL-3s will stay in this mode until a fully charged battery is connected.

When you turn your model on, the VXL-3s speed control's status LED will glow green, indicating that **Low-Voltage Detection is activated** to prevent over-discharging of LiPo batteries. **LiPo batteries are intended only for the most advanced users that are educated on the risks associated with LiPo battery use.**



### WARNING: FIRE HAZARD!

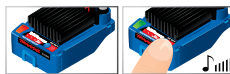
Do not use LiPo batteries in this vehicle with Low-Voltage Detection disabled.

### Verify that Low-Voltage Detection is ACTIVATED:

1. Turn on the transmitter (with the throttle at neutral).
2. Connect a fully charged battery pack to the VXL-3s.
3. Press and release the EZ-Set button to turn the VXL-3s 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.

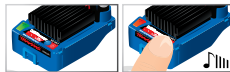
### To activate Low-Voltage Detection (LiPo setting):

1. Make sure the LED on the VXL-3s is on and red.
2. Press and hold the EZ-Set button for ten seconds. The LED will turn off and then light green. Also, a "rising" musical tone will be emitted from the motor.
3. Low-Voltage Detection is now ACTIVATED.



### To disable Low-Voltage Detection (NiMH setting):

1. Make sure the LED on the VXL-3s is on and green.
2. Press and hold the EZ-Set button for ten seconds. The LED will turn off and then light red. Also, a "falling" musical tone will be emitted from the motor.
3. Low-Voltage Detection is now DISABLED.



### Transmitter Adjustments for the VXL-3s ESC

Before attempting to program your VXL-3s ESC, it is important to make sure that your transmitter is properly adjusted (set back to the factory defaults). Otherwise, you may not get the best performance from your speed control.

### The transmitter should be adjusted as follows:

If the transmitter setting have been adjusted, reset them to the factory defaults.

1. Turn transmitter off.
2. Hold both MENU and SET.
3. Turn transmitter on.
4. Release MENU and SET. The transmitter LED will blink red.

5. Press MENU once. The transmitter LED will blink red twice repeatedly.
6. Press SET to clear settings. The LED will turn solid green and the transmitter is restored to default.

## VXL-3s 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 back in, and start over.

1. Connect a fully charged battery pack to the VXL-3s.

2. Turn on the transmitter (with the throttle at neutral).

3. Press and hold the EZ-Set button (A). The LED will first turn green and then red. Release the EZ-Set button.

4. When the LED blinks RED ONCE, pull the throttle trigger to the full throttle position and hold it there (B).

5. When the LED blinks RED TWICE, push the throttle trigger to the full reverse and hold it there (C).

6. 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 VXL-3s is on and at neutral (D).



## VXL-3s Operation

To operate the speed control and test programming, place the vehicle on a stable block or stand so that all of the driven wheels are off the ground. Disconnect motor wires "A" and "C" (see page 12), this will assure the motor does not drive the wheels during testing. Do not test programming without disconnecting the motor wires.

*Note that in steps 1-7 below, Low-Voltage Detection is ACTIVATED (factory default) and the LED shines green. If Low-Voltage Detection is DISABLED, the LED will shine red instead of green in steps 1-7 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 green. This turns the VXL-3s on.
2. Apply forward throttle. The LED will turn off until full throttle power is reached. At full throttle, the LED will illuminate green.
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 illuminate green.
4. Return the throttle trigger to neutral. The LED will shine green.
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 illuminate green.
6. To stop, return the throttle trigger to neutral. Note that there is programmed delay when changing from reverse to forward. This prevents damage to the transmission on high-traction surfaces.
7. To turn the VXL-3s off, press the EZ-Set button until the LED turns off (.5 seconds).

### VXL-3s Profile Selection

The speed control is factory set to Profile #1 (100% forward, brakes, and reverse). To disable reverse (Profile #2) or to allow 50% forward and 50% reverse (Profile #3), follow the steps below. The speed control should be connected to the receiver and battery, and the transmitter should be adjusted as described previously. The profiles are selected by entering the programming mode.

#### Profile Description

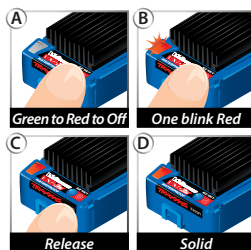
Profile #1 (Sport Mode): 100% Forward, 100% Brakes, 100% Reverse

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

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

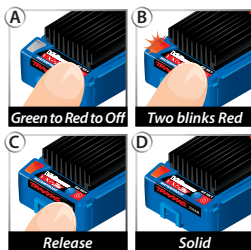
#### Selecting Sport Mode (Profile #1: 100% Forward, 100% Brakes, 100% Reverse)

1. Connect a fully charged battery pack to the VXL-3s and turn on your transmitter.
2. With the VXL-3s 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).
3. When the LED blinks red once, release the EZ-Set button.
4. 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.



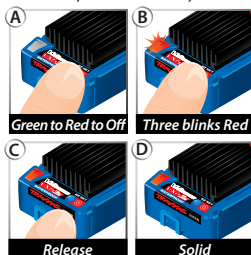
#### Selecting Race Mode (Profile #2: 100% Forward, 100% Brakes, No Reverse)

1. Connect a fully charged battery pack to the VXL-3s and turn on your transmitter.
2. With the VXL-3s 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).
3. When the LED blinks red twice, release the EZ-Set button.
4. 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)

1. Connect a fully charged battery pack to the VXL-3s and turn on your transmitter.
2. With the VXL-3s 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).
3. When the LED blinks red three times, release the EZ-Set button.



4. 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:** VXL-3s power-on light. Low-Voltage Detection is ACTIVATED (LiPo setting).
- **Solid Red:** VXL-3s power-on light. Low-Voltage Detection is DISABLED (NiCad/NiMH setting). **Never use LiPo batteries while Low-Voltage Detection is disabled.**
- **Slow Blinking Red** (with Low-Voltage Detection on): The VXL-3s has entered **Low-Voltage Protection**. When the battery voltage begins to reach the minimum recommended discharge voltage threshold for LiPo battery packs, the VXL-3s will limit the power output to 50% throttle. When the battery voltage attempts to fall below the minimum threshold, the VXL-3s will shut down all motor output. The LED on the speed control will slowly blink red, indicating a low-voltage shutdown. The VXL-3s will stay in this mode until a fully charged battery is connected.
- **Fast Blinking Red:** Thermal Shutdown Protection Stage 1. If the motor has *lower than normal power* and the VXL-3s is hot, the VXL-3s has entered **Stage 1 Thermal Shutdown Protection** to guard against overheating caused by excessive current flow. If the motor has *no power* and the VXL-3s is very hot, the VXL-3s has entered **Stage 2 Thermal Shutdown Protection** and has automatically shut down. Let the VXL-3s cool. Make sure your model is properly geared for the conditions (see page 24).
- **Very Fast Blinking Red:** Thermal Shutdown Protection and Low Voltage Protection (see above) have occurred at the same time.
- **Alternating; Blinks Red then Green:** If the motor has *no power*, the VXL-3s has entered **Over Voltage Protection**. If a battery with too high voltage is used, the VXL-3s will go into a fail-safe mode. **WARNING:** If input voltage exceeds approximately 20-volts, the ESC may be damaged. Do not exceed 12.6 maximum peak input voltage.
- **Blinking Green:** The VXL-3s is indicating the transmitter Throttle Trim is incorrectly set. If the Multi-Function knob is set to throttle trim, then adjust the Throttle Trim to the middle "0" setting.



**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 VXL-3s is set to Profile 1 (Sport Mode) as the default. To quickly change to Profile 3 (Training Mode), with the transmitter on, press and hold the EZ-Set button until the light blinks red three times and then release. For full power, quickly change back to Profile 1 (Sport Mode) by pressing and holding the EZ-Set button until the light blinks red one time and then releasing.



The VXL-3s has built-in programming that prevents accidental activation of reverse while in forward motion and vice-versa. You must come to a complete stop, release the throttle trigger, then apply opposite throttle to engage the motor in the desired direction.

Your Drag Slash is configured to be easy to race and have fun with out of the box. As you become familiar with your Drag Slash, you can begin to step up to more speed.

- TSM is on.
- The speed gear is not installed.

### TRAXXAS TRANS BRAKE

The **Traxxas Trans Brake** simulates the operation of a transmission brake in a full size racer. The Trans Brake is able to apply full throttle to your Drag Slash faster than you can pull the trigger to full throttle. To operate the Trans Brake:

- Press and hold the Trans Brake button on the transmitter grip with your thumb.
- Pull the throttle trigger to the desired launch speed. With TSM on, try full throttle.
- With the Trans Brake active, the Drag Slash will not roll on the start line.
- When the race starts, simply release the button and Drag Slash instantly responds to your throttle setting (in our example, instant full throttle is applied).

### GOING FASTER: DRAG RACING PERFORMANCE TIPS

#### Battery Selection

Most no-prep racing is done with 2-cell LiPo batteries. Your Drag Slash was designed and optimized to use the Traxxas 2s 7600 LiPo battery for maximum current output. It is available as part #2869X. Charge the battery with a Traxxas iD charger to ensure maximum peak voltage and battery balance.

If you plan to use a 3s LiPo battery in your Drag Slash, you will need to monitor motor, battery, and electronic speed control temperatures and adjust your gear ratio (pinion and spur) to account for the extra voltage and motor speed (smaller pinions, larger spur gears). This will help prevent damage to your motor and electronic speed control. We recommend to always use TSM with 3s batteries.

Of course, when using LiPo batteries, follow all manufacturer's warnings and instructions.

#### Burnouts

The vehicle's traction can be improved by doing a "burnout" to warm the tires. As the rubber compound heats up, it has more grip. To do a burnout, hold the wheelie bar as you apply the throttle so the tires spin on the pavement. Do not press the tires to the pavement; simply restrain the vehicle from moving forward.

Apply only enough throttle to spin the tires without causing them to expand and only heat the center of the tire. The tire needs to heat evenly across its width. Move the vehicle slightly side to side to avoid grooving the tire on pavement that is not smooth. A small piece of carpet can also be used for the burnout. This heats the tires to increase traction but will cause less tire wear than pavement. A burnout should last 5 seconds or less. It is normal to smell warm rubber when performing a burnout, but the stock tires will not smoke. Run the vehicle after the burnout to test the available traction. If necessary, vary the time of the burnout to achieve the desired level of traction.

Avoid many consecutive burnouts without making a pass or resting the vehicle between burnouts, or you may overheat the electronic speed control. Proper burnouts are important for strong launches. Destroying your tires with excessive, high-speed or lengthy burnouts may be fun, but will also cause greatly increased tire wear and not help you to be faster.

#### Gearing

Once you are familiar with your Drag Slash, you can adjust the gearing to go faster. Your model includes an additional pinion gear. This gear is for maximum speed on race day. Using this high-speed gear for other types of driving fun may overheat the motor, speed control, or battery (*see page 26 for more information on installing and using the high-speed pinion*).

#### Wheelie Bar

The wheelie bar should be set just low enough to keep the front tires in contact with the ground when accelerating. The rear end of the vehicle needs to "squat" in order to transfer weight and power to the rear tires and allow you to launch with maximum traction. The stock position described in this manual usually delivers the fastest, most consistent passes. Raising the wheelie bar results in bigger wheelies, but may not improve weight transfer and performance (*see page 14 for more information on installing and adjusting the wheelie bar*).

#### TUNING WITHOUT TSM

If you have progressed to racing without the assistance of TSM, here are some tips to help you launch and track straight on the track.

#### General Preparation

Drag Racing cars exert maximum performance in short bursts. It is very important to make sure that your vehicle is in excellent condition with much attention paid to the details. Dirty, worn, or loose components can cause inconsistent performance and make



your vehicle difficult to tune. Look for anything that is out of spec and repair or replace the components as needed.

The rear tires are very important. Make sure that the tires are very clean and in good condition with even wear. Check the glue bead for damage. Make sure the tires spin true with no significant high or low spots. Store your Drag Slash with the tires elevated to avoid flat spots. Part of the prep is having clean tires. Light scuffing of the tires can help with traction. To scuff the tires, lightly apply some medium to fine sandpaper back and forth over the tire tread while applying a small amount of throttle.

Check the alignment. If your front tires are not pointing straight ahead, it can cause extra drag and difficulty steering straight. Refer to the Owner's Manual for more detail on adjusting the alignment with the metal turnbuckles.

Check the wheelie bar to make sure it is not bent or damaged. A bent or damaged wheelie bar can cause the vehicle to not launch straight.

### Adjustments

*When fine tuning your Drag Slash, make small incremental adjustments to the truck and only one at a time.* Take several runs before making any adjustments; always confirm that change is actually needed. Be consistent with your burnouts and Trans Brake, and try to limit any other variables. The setup of the truck should be checked before each run.

### Adjusting Pre-Load for Straight Launches

If the vehicle is swerving to one side when launching, move a 1mm pre-load spacer from one of the rear shocks to the rear shock on the opposite side. *For example, if it swerves right when launching, move a 1mm pre-load spacer from the left rear shock to the right rear shock.* If a smaller adjustment is needed (the truck is slightly drifting to one side), only remove the spacer from the opposite side rear shock; do not put it on the other shock (*see page 25 for more information on fine tuning the shocks*).

The front shocks do not have pre-load spacers. The out-of-box setup for the rear shock spacers is: one 4mm, one 2mm, and two 1mm thick spacers for each rear shock.

Always make sure the steering is centered (steering trim) and that the camber link and toe link settings haven't changed.

For more information about fine tuning your Drag Slash, see the "Adjusting Your Model" section on page 25 of this manual or visit [Traxxas.com/dragslash](http://Traxxas.com/dragslash) and click on the *Support* link.

## DRIVING PRECAUTIONS

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 batteries and motors (*see page 28 for information on monitoring temperatures*).
- 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, sluggish servos (slow to return to center), or ESC shutdown due to the Low-Voltage Detection circuitry. Stop immediately at the first sign of weak batteries. When the batteries in the transmitter become weak, the power light will begin to flash red. 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 3000mAh battery pack will theoretically run twice as long as a 1500mAh sport 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 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 VXL-3s cool. Get plenty of airflow across the ESC heat sinks.
- Use the correct Low-Voltage Detection setting for your battery (*see page 18*). Low-Voltage Detection can be off for maximum NiMH battery runtime. **Never use LiPo batteries while Low-Voltage Detection is turned off.**
- Lower your gear ratio. Installing a smaller pinion or larger spur gear will lower your gear ratio, causing less power draw from the motor and battery, and reducing 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 new Traxxas 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 through 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. Do not use LiPo batteries in wet conditions.
- The Traxxas TQi 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.

#### 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. 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.
3. Confirm that your batteries can be used in wet conditions.
4. Use lower gearing (smaller pinion gears, as low as 16T, or spur gear as large as 90T) 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

- Velineon 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.
- 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.

### After Running Your Vehicle in Wet Conditions

1. Remove the batteries.
2. Rinse excess dirt and mud off the truck 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, differentials, etc.
3. Blow off the truck with compressed air (optional, but recommended). Wear safety glasses when using compressed air.
4. Remove the wheels from the truck.
5. Spray all the bearings, drivetrain, and fasteners with WD-40® or similar water-displacing light oil.
6. Let the truck stand or you may blow it off with compressed air. Placing the truck in a warm, sunny spot will aid drying. Trapped water and oil will continue to drip from the truck for a few hours. Place it on a towel or piece of cardboard to protect the surface underneath.

7. 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.
8. **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.
  - **Differential:** Remove, disassemble, clean, and re-grease the differential components. Use a light coating of wheel bearing grease (from an auto parts store) on the metal gear teeth. Refer to your exploded view diagrams for help with disassembly and reassembly.
  - **Velineon motor:** After operating your model in wet or muddy conditions, remove the motor and clean any mud or dirt from the bearings. To access the rear bearing, remove the plastic cap with thumb pressure, or gently pry the cap off with a flat-blade screwdriver. To prevent corrosion and assure maximum bearing life, lubricate the bearings with a light oil (available at your local hobby store). Following these steps will extend motor life and maintain peak performance. Be sure to wear eye protection when using spray aerosol cleaners.

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

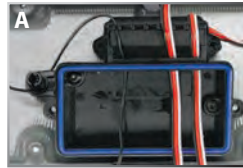
The unique design of the receiver box allows the removal and installation of the receiver without losing the ability to maintain a watertight seal in the box. The patent-pending wire clamp feature gives you the ability to also install aftermarket radio systems and maintain the watertight features of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

### Removing the Receiver

1. To remove the cover, remove the two 3x8mm button-head cap screws.
2. To remove the receiver from the box, carefully pull it out (it is secured by servo tape) and set to the side. The antenna wire is still inside the clamp area and cannot be removed yet.
3. Remove the wire clamp by removing the two 2.5x8mm cap screws.
4. Unplug the servo cables from the receiver and remove the receiver.

### Receiver Installation

1. Always install the wires into the receiver box before installing the receiver.
2. Install the antenna wire and the servo cables into the receiver box.
3. Arrange the wires neatly using the wire guides in the receiver box (A). The excess wire will be bundled inside the receiver box. Label which wire is for which channel.
4. Apply a small bead of silicone grease (part #1647) to the wire clamp (B).



5. Install the wire clamp and tighten the two 2.5x8mm cap screws securely.
6. Using double-sided adhesive foam tape, install the receiver into the box and plug the wires into the receiver (C). Refer to page 12 for the wiring diagram.



**Note: For best performance, it is recommended that the receiver be installed in the original orientation as shown.**

7. Make sure the box light pipe is aligned with the receiver LED. Make sure the O-ring is properly seated into the groove in the receiver box so that the cover will not pinch it or damage it in any way.
8. Install the cover and tighten the two 3x8mm button-head cap screws securely.
9. Inspect the cover to make sure that the O-ring seal is not visible.



Once you become familiar with driving your model, you might need to make adjustments for better driving performance.

### Adjusting the Toe-in

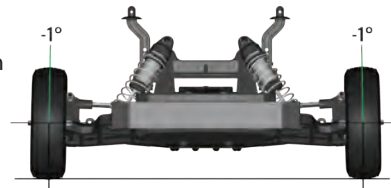
Geometry and alignment specs play an important role in your model's handling. Take the time to set them correctly. Turn off TSM (see page 17); then, set the steering trim on your transmitter to neutral. Now, adjust your servo and tie rods so that both wheels are pointing straight ahead and are parallel to each other (0° toe-in). This will ensure the same amount of steering in both directions. For increased stability, add one- to two-degrees of toe in to each front wheel. Use the turnbuckles to adjust the alignment.



Toe-in

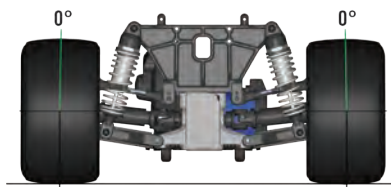
### Adjusting the Camber

The camber angle of both the front and rear wheels can be adjusted with the camber rods (upper turnbuckles). Use a square or right-angle triangle to set the camber accurately.



Front Camber

The stock camber of the front wheels is -1 degree of camber. In the rear, the stock camber is 0 degrees. These adjustments should be set with the truck positioned at its normal ride height with a battery installed.



Rear Camber

### Fine Tuning the Shocks

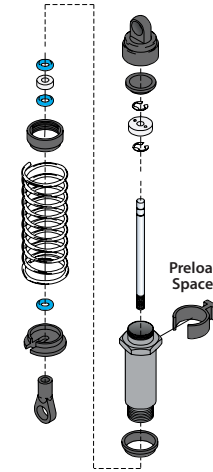
The four shocks on the model greatly influence its handling. Whenever you rebuild your shocks or make any changes to the pistons, springs, or oil, always make changes to them in pairs (front or rear).

Piston selection depends on the range of oil viscosities that you have available. For example, using a two-hole piston with a lightweight oil will, at one point, give you the same damping as a three-hole piston with heavier oil. We recommend using the two-hole pistons with a range of oil viscosities from 10W to 60W (available from your hobby shop). The thinner viscosity oils (30W or less) flow more smoothly and are more consistent, while thicker oils provide more damping. Use only 100% pure silicone shock oil to prolong seal life. From the factory, shock oil is set to 20W in the front shocks and 60W in the rear shocks.

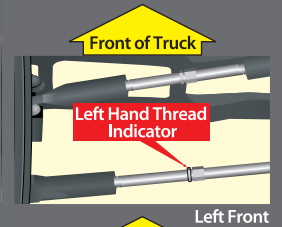
The model's ride height can be adjusted by adding or removing the clip-on, spring preload spacers. Adjust the ride height so that the suspension arms are slightly above being parallel to the ground. Observe how the model handles when launching. Proper setup will add stability and help prevent swerving to one side or the other or vehicle drifting. Experiment with different springs and shock oils to find what works best for your current track conditions.

### Shock Mounting Positions

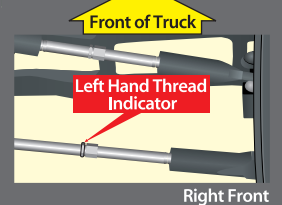
The factory suspension settings help reduce throttle-induced steering and allow weight to transfer to the drive wheels, giving a better launch. Your model's suspension has been factory set for the best drag racing performance out of the box and should not require adjustment.



All of the toe links are installed on the truck so the left-hand thread indicators point to the same direction. This makes it easier to remember which way to turn the wrench to increase or decrease toe link length (the direction is the same at all four corners). Note that the groove in the hex indicates the side of the toe link with the left-hand threads.



Left Front



Right Front

### Motor and Gearing

The model is equipped with the Magnum 272R Transmission. One of the more significant advantages to the 272R transmission is the extremely wide range of available gear ratios. It can be geared low enough to run an extremely hot, modified motor. A higher Kv motor should be geared lower (higher numerically) than a stock motor because it will reach its maximum power at higher rpms. A higher Kv motor that is geared incorrectly can actually be slower than a correctly-geared, stock motor. Use the following formula to calculate the overall ratio for combinations not listed on the gear chart:

$$\frac{\text{\# Spur Gear Teeth}}{\text{\# Pinion Gear Teeth}} \times 2.72 = \text{Final Gear Ratio}$$

If you are worried that you might be over-geared, check the temperature of the battery pack and motor. If the battery is extremely hot, and/or the motor is too hot to touch, your model is probably over-geared. If you are not able to run your model for at least four minutes before the battery dies, then change to a lower gear ratio. This temperature test assumes that the model is close to factory stock weight and operates freely with no excessive friction, dragging, or binding, and the battery is fully charged and in good condition.

The model is equipped with a Velineon 3500 motor. The gear combination that comes stock on each model provides good overall acceleration and top speed. If you want more top speed and less acceleration, install the included high-speed gearing (more teeth). If you want more acceleration and less top speed, use a smaller optional (not included) pinion gear. **The included high-speed gearing is intended for use with a 2s LiPo battery on race day. Using this high-speed gear for other types of driving may overheat the motor, speed control, or battery.**

		Spur Gear			
		76	83	86	90
Pinion Gear	15	-	-	-	-
	16	-	-	-	-
	17	-	-	-	14.39
	18	-	-	13.00	13.60
	19	-	11.89	12.32	12.89
	20	-	11.28	11.69	12.24
	21	-	10.75	11.14	11.66
	22	9.38	10.25	10.63	11.12
	23	8.97	9.82	10.17	10.63
	24	8.62	9.41	9.74	10.20
	25	8.27	9.03	9.36	9.79
	26	7.94	8.67	9.00	-
	27	7.64	8.35	8.67	-
	28	7.37	8.05	8.35	-
	29	7.12	7.78	8.08	-
	30	6.88	7.53	-	-
	31	6.66	7.29	-	-
	32	-	7.04	-	-
	33	-	-	-	-
	34	-	-	-	-
	35	-	-	-	-

### Gearing Compatibility Chart

The chart to the left shows a full range of gear combinations. This does NOT imply that these gear combinations should be used. Over-gearing (bigger pinions, smaller spurs) can overheat and damage the motor and/or speed control.

- Good Acceleration
  - Good Speed
  - Normal Conditions
- 22-Tooth Pinion  
76-Tooth Spur
- Drag Racing
  - Short Distances
  - High Top Speed
- 29-Tooth Pinion\*  
76-Tooth Spur

\*optional included

- Recommended Gear Range
- Stock Gearing
- For high-speed running only
- Included optional gearing, for high-speed running only
- For high-speed runs only, not recommended for use with NiMH batteries. High-current LiPo batteries required.
- Not recommended

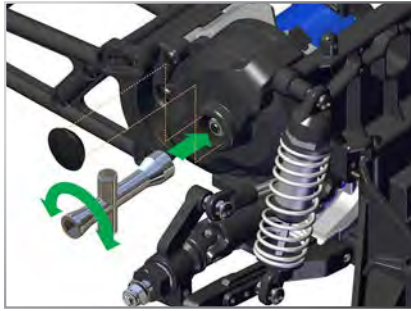
### Fixed Gear Adapter

Incorrect gear mesh is the most common cause of stripped spur gears. Drag Slash makes improper gear mesh virtually impossible. A factory installed fixed gear adapter helps set the motor in the proper place for the stock pinion and spur gears. If a different gearing combination is desired, the fixed gear adapter will also need swapped (an additional fixed gear adapter is supplied with your model for use with the included high-speed gearing). Use the exploded views included with your model to aid in the disassembly/assembly process.



### Adjusting the Slipper Clutch

The model is equipped with an adjustable slipper clutch that is built into the large spur gear. The purpose of the slipper clutch is 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. **From the factory, the slipper clutch adjusting spring is fully compressed for best drag racing results.** Remove the rubber slipper clutch plug on the transmission cover to adjust the slipper (if needed). Use the 4-way wrench to turn the adjusting nut clockwise to tighten and counterclockwise to loosen.



### Centering Your Servo

If you have removed the servo horn from your model's steering servo, or the servo has been removed for service or cleaning, the servo must be re-centered prior to installation of the servo horn or installation of the servo into the model.

1. Remove the servo horn from the steering servo.
2. Connect the steering servo to channel 1 on the receiver. Connect the electronic speed control (ESC) to channel 2. The white wire on the servo lead is positioned towards the receiver's LED.
3. Turn the transmitter power switch on. Make certain the transmitter's batteries are not depleted.
4. Turn off TSM (see page 17).
5. Turn the transmitter's steering trim knob to the center "0" position.
6. Disconnect motor wires "A" and "C" (see page 12) to prevent the motor from turning during the next steps. Connect a fresh battery pack to the speed control and turn on the ESC (see page 18). The servo's output shaft will automatically jump to its center position.
7. Install the servo horn onto the servo output shaft. The servo horn should face toward the center of the chassis and be perpendicular to the servo body.
8. Check servo operation by turning the steering wheel back and forth to ensure that the mechanism has been centered properly and you have equal throw in both directions. Use the transmitter's steering trim knob to fine-tune the position of the servo horn so the model tracks straight when the steering wheel is at neutral.

### Tuning the Pro Series Magnum 272R™ Transmission Sealed Differential

The differential is 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 differential. From the factory, the differential is filled with 500K differential oil. Only use silicone oil in the differential. The differential has to be removed from the transmission and disassembled to change/replace the oil.

*Please refer to the exploded views included with your model for detailed assembly.*

#### Refilling the differential:

1. Remove the four 2.5x10mm cap screws from the bottom of the transmission to remove the differential cover.
2. Slide the differential out of the transmission case.
3. Remove the 2.5x10mm button-head cap screws from the differential and carefully pull the differential halves apart. Work over a towel to collect any fluid that drips from the differential.
4. Drain the fluid from the differential. You may wish to remove the spider gears from the differential to make this easier.
5. Place the spider gears back into the differential carrier (if you removed them). Fill the carrier with fluid until the cross pins are covered.
6. Rejoin the differential halves, using care to align the screw holes. Be sure the rubber gasket is in place or the differential may leak.
7. Install the 2.5x10mm button-head cap screws and tighten securely.
8. To reinstall the differential, reverse the steps.



#### *Velieon 3500 Specs*

*Type:*

Sensorless brushless

*RPM/volt:*

3500

*Magnet type:*

Ultra High-Temperature Sintered Neodymium

*Connection type:*

3.5mm bullet

*Wire size:*

12 Gauge

*Max rpm:*

50,000

*Diameter:*

36mm (1.42) (540 size)

*Length:*

55mm (2.165)

*Weight:*

262g (9.24oz)



Always use the proper length motor bolts. The standard motor mounting bolts are 3x10mm. Using motor bolts that are too long can interfere with the motor's rotation and damage the motor's internals!



The VXL-3s features Locked Rotor Protection. The VXL-3s checks to make sure the motor is turning. If the motor is locked or damaged, the ESC will enter fail-safe until the motor is free to rotate.

**LiPo Batteries**

LiPo batteries are intended only for the most advanced users that are educated on the risks associated with LiPo battery use. It is critical to follow all instructions supplied by the battery manufacturer and the charger manufacturer for proper charging, use, and storage of LiPo batteries. Make sure you understand how to use your LiPo batteries. See *Safety Precautions* and warnings on page 4 for more information.

**Temperatures and Cooling**

Monitoring temperatures will extend the lives of the batteries and motors. There are many options available that will help you monitor temperatures and cool your components.

**Temperature sensor**

To accurately monitor motor temperature and prevent overheating, a telemetry temperature sensor (part #6521) can be installed on the motor to continually monitor temperature as you drive. Generally, try to keep your motor below 200° F. If necessary, increase airflow to the motor by cutting out the rear of the body or windshield.

**Heat sink cooling fan**

The VXL-3s is equipped with an additional connector to supply power to an optional heat sink cooling fan (part #3340). The optional heat sink cooling fan can assist in cooling the VXL-3s in high current motor applications.



If you have questions or need technical assistance, call Traxxas at

**1-888-TRAXXAS**

(1-888-872-9927) (U.S. residents only)

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. The steering servo saver will wear out over time. If the steering becomes loose, the servo saver should be replaced.
10. Inspect the gears for wear, broken teeth, or debris lodged between the teeth.
11. Check the tightness of the slipper clutch.

### Other periodic maintenance:

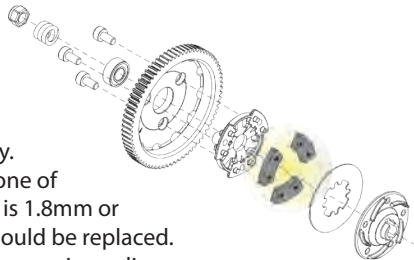
#### • Slipper clutch pads

(friction material):

Under normal use, the friction material in the slipper clutch should wear very slowly.

If the thickness of any one of the slipper clutch pads is 1.8mm or less, the friction disc should be replaced.

Measure the pad thickness using calipers or measuring against the diameter of the 1.5 and 2.0mm hex wrenches provided with the model.



- **Chassis:** Keep the chassis clean of accumulated dirt and grime. Periodically inspect the chassis for damage
- **Steering:** Over time, you may notice increased looseness in the steering system. There are several components that will wear out from use: the servo saver (part #6845), the bellcrank bearings (part #5114), and the tie rod ends (part #2742). Replace these components as needed to restore factory tolerances.

- **Motor:** Every 10-15 runs, remove the motor and clean the bearings. To access the rear bearing, remove the plastic cap with thumb pressure, or gently pry the cap off with a flat-blade screwdriver. To prevent corrosion and ensure maximum bearing life, lubricate the bearings with a light oil (available at your local hobby store). Following these steps will extend motor life and maintain peak performance.
- **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 #2362.
- **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. If a U-joint pops apart, then it is time to replace the part. Remove the gear cover, inspect the spur gear for wear, and check the tightness of the 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.



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



## Starting Over: Restoring Factory Defaults

When programming your TQi transmitter, you may feel the need to start over with a clean slate. Follow these simple steps to restore the factory settings:

1. Turn the transmitter off.
2. Hold both MENU and SET.
3. Turn the transmitter on.
4. Release MENU and SET.  
The transmitter LED will blink red.
5. Press SET to clear settings.  
The LED will turn solid green and the transmitter is restored to default.



## Throttle Trim Seek Mode

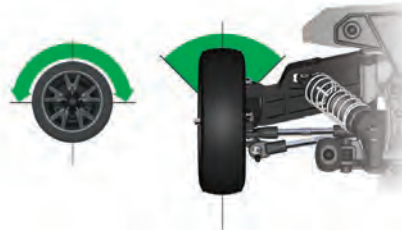
When the Multi-Function knob is set to throttle trim, the transmitter remembers the throttle trim setting. If the throttle trim knob is moved from the original setting while the transmitter is off, or while the transmitter was used to control another model, the transmitter ignores the actual position of the trim knob. This prevents the model from accidentally running away. The LED on the face of the transmitter will rapidly blink green and the throttle trim knob (Multi-Function knob) will not adjust the trim until it is moved back to its original position saved in memory. To restore throttle trim control, simply turn the Multi-Function knob either direction until the LED stops blinking.

Your Traxxas transmitter has a programmable Multi-Function knob that can be set to control various advanced transmitter functions (set to Traxxas Stability Management (TSM) by default, see page 17). Accessing the programming menu is done by using the menu and set buttons on the transmitter and observing signals from the LED. An explanation of the menu structure follows on page 31. Experiment with the settings and features to see if they can improve your driving experience.

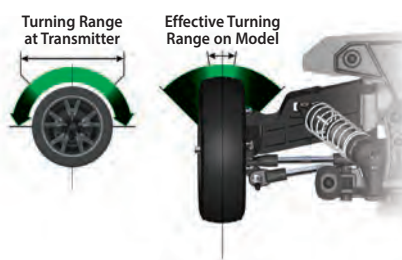
## Steering Sensitivity (Exponential)

The Multi-Function knob on the TQi transmitter can be set to control Steering Sensitivity (also known as exponential). The standard setting for Steering Sensitivity is “normal (zero exponential)”, with the dial full left in its range of travel. This setting provides linear servo response: the steering servo’s movement will correspond exactly with the input from the transmitter’s steering wheel. Turning the knob clockwise from the left will result in “negative exponential” and decrease steering sensitivity by making the servo less responsive near neutral, with increasing sensitivity as the servo nears the limits of its travel range. The farther you turn the knob, the more pronounced the change in steering servo movement will be. The term “exponential” comes from this effect; the servo’s travel changes exponentially relative to the input from the steering wheel. The exponential effect is indicated as a percentage—the greater the percentage, the greater the effect. The illustrations below show how this works.

**Normal Steering Sensitivity (0% exponential):** In this illustration, the steering servo’s travel (and with it, the steering motion of the model’s front wheels) corresponds precisely with the steering wheel. The ranges are exaggerated for illustrative purposes.



**Decreased Steering Sensitivity (Negative Exponential):** By turning the Multi-Function knob clockwise, the steering sensitivity of the model will be decreased. Note that a relatively large amount of steering wheel travel results in a smaller amount of servo travel. The farther you turn the knob, the more pronounced the effect becomes. Decreased steering sensitivity may be helpful when driving on low-traction surfaces, when driving at high speed, or on tracks that favor sweeping turns where gentle steering inputs are required. The ranges are exaggerated for illustrative purposes.



## Throttle Sensitivity (Throttle Exponential)

The Multi-Function knob can be set to control Throttle Sensitivity. Throttle Sensitivity works the same way as Steering Sensitivity, but applies the effect to the throttle channel. Only forward throttle is affected; brake/reverse travel remains linear regardless of the Throttle Sensitivity setting.

## Steering Percentage (Dual-Rate)

The Multi-Function knob can be set to control the amount (percentage) of servo travel applied to steering. Turning the Multi-Function knob fully clockwise will deliver maximum steering throw; turning the knob counterclockwise reduces steering throw (note: turning the dial counterclockwise to its stop will eliminate all servo travel). Be aware that the steering End Point settings define the servo’s maximum steering throw. If you set Steering Percentage to 100% (by turning the Multi-Function knob fully clockwise), the servo will travel all the way to its selected end point, but not past it. Many racers set Dual-Rate so they have only as much steering throw as they need for the track’s tightest turn, thus making the model easier to drive throughout the rest of the course. Reducing steering throw can also be useful in making a model easier to control on high-traction surfaces, and limiting steering output for oval racing where large amounts of steering travel are not required.

## Braking Percentage

The Multi-Function knob may also be set to control the amount of brake travel applied by the servo in a nitro-powered model. Electric models do not have a servo-operated brake, but the Braking Percentage function still operates the same way in electric models. Turning the Multi-Function knob full clockwise will deliver maximum brake throw; turning the knob counterclockwise reduces brake throw (**Note:** Turning the dial counterclockwise to its stop will eliminate all brake action).

## Throttle Trim

Setting the Multi-Function knob to serve as throttle trim will allow you to adjust the throttle’s neutral position to prevent unwanted brake drag or throttle application when the transmitter trigger is at neutral. **Note:** Your transmitter is equipped with a Throttle Trim Seek mode to prevent accidental runaways. See the sidebar for more information.

### Steering and Throttle End Points

The TQi transmitter allows you to choose the limit of the servo's travel range (or its "end point") independently for left and right travel (on the steering channel) and throttle/brake travel (on the throttle channel). This allows you to fine-tune the servo settings to prevent binding caused by the servo moving steering or throttle linkages (in the case of a nitro model) farther than their mechanical limits. The end point adjustment settings you select will represent what you wish to be the servo's maximum travel; the Steering Percentage or Braking Percentage functions will not override the End Point settings.

### Steering and Throttle Sub-Trim

The Sub-Trim function is used to precisely set the neutral point of the steering or throttle servo in the event that simply setting the trim knob to "zero" does not completely center the servo. When selected, Sub-Trim allows finer adjustment to the servo output shaft's position for precise setting of the neutral point. Always set the Steering Trim knob to zero before making final adjustment (if required) using Sub-Trim. If Throttle Trim has been previously adjusted, the Throttle Trim will need to be reprogrammed to "zero" before making final adjustment using Sub-Trim.

### Setting Lock

Once you've adjusted all of these settings the way you like them, you may want to disable the Multi-Function knob so none of your settings can be changed. This is especially handy if you operate multiple vehicles with a single transmitter via Traxxas Link™ Model Memory.

### Multiple Settings and the Multi-Function Knob

It is important to note that settings made with the Multi-Function knob are "overlaid" on top of each other. For example, if you assign the Multi-Function to adjust Steering Percentage and set it for 50%, then reassign the knob to control Steering Sensitivity, the transmitter will "remember" the Steering Percentage setting. Adjustments you make to Steering Sensitivity will be applied to the 50% steering throw setting you selected previously. Likewise, setting the Multi-Function knob to "disabled" will prevent the knob from making further adjustments, but the last setting of the Multi-Function knob will still apply.



### 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.

## TRANSMITTER LED CODES

LED Color / Pattern	Name	Notes
	Normal Driving Mode	See page 15 for information on how to use your transmitter controls.
	Binding	See page 16 for more information on binding.
	Throttle Trim Seek Mode	Turn the Multi-Function knob right or left until the LED stops flashing. See page 28 for more information.
	Low Battery Alarm	Put new batteries in the transmitter. See page 13 for more information.
	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).
<b>Programming Patterns</b>		
	Current menu position	See Menu Tree for more information.
x 8	Menu setting accepted (on SET)	
x 8	User error, such as trying to delete a locked model.	

## RECEIVER LED CODES

LED Color / Pattern	Name	Notes
	Normal Driving Mode	See page 15 for information on how to use your transmitter controls.
	Binding	See page 16 for more information on binding.
	Fail-Safe / Low-Voltage Detect	Consistent low voltage in the receiver triggers Fail-Safe so there is enough power to center the throttle servo before it completely loses power.

### TRAXXAS LINK MODEL MEMORY

Traxxas Link Model Memory is an exclusive, patent-pending feature of the TQi transmitter. Each time the transmitter is bound to a new receiver, it saves that receiver in its memory, along with all the settings assigned to that receiver. When the transmitter and any bound receiver are switched on, the transmitter automatically recalls the settings for that receiver. There is no need to manually select your vehicle from a list of model memory entries.

#### Model Lock

The Traxxas Link Model Memory feature can store up to thirty models (receivers) in its memory. If you bind a thirty-first receiver, Traxxas Link Model Memory will delete the “oldest” receiver from its memory (in other words, the model you used the longest time ago will be deleted). Activating Model Lock will lock the receiver in memory so it cannot be deleted.

You may also bind multiple TQi transmitters to the same model, making it possible to pick up any transmitter and any previously bound model in your collection and simply turn them on and drive. With Traxxas Link Model Memory, there is no need to remember which transmitter goes with which model, and there is never a need to have to select any model from a list of model memory entries. The transmitter and receiver do it all for you automatically.

#### To activate Model Lock:

1. Switch on the transmitter and receiver you wish to lock.
2. Press and hold MENU. Release when the status LED blinks green.
3. Press MENU three times. The status LED will blink green four times repeatedly.
4. Press SET. The status LED will blink green in single-flash intervals.
5. Press SET once. The status LED will blink red once repeatedly.
6. Press MENU once. The status LED will blink red twice repeatedly.
7. Press SET. The LED will blink rapidly green. The memory is now locked. Press and hold MENU to return to driving mode.

**Note:** To unlock a memory, press SET twice at step 5. The LED will blink rapidly green to indicate the model is unlocked. To unlock all models, press MENU twice at step 6 and then press SET.

#### To delete a model:

At some point, you may wish to delete a model you no-longer drive from the memory.

1. Switch on the transmitter and receiver you wish to delete.
2. Press and hold MENU. Release when the status LED blinks green.
3. Press MENU three times. The status LED will blink green four times repeatedly.
4. Press SET once. The status LED will blink green once repeatedly.
5. Press MENU once. The status LED will blink green twice repeatedly.
6. Press SET. The memory is now selected to be deleted. Press SET to delete the model. Press and hold MENU to return to driving mode.



**MENU TREE**

The Menu Tree below shows how to navigate through the TQi transmitter's various settings and functions. Press and hold MENU to enter the Menu Tree, and use the following commands to navigate through the menu and select options.

**MENU:** When you enter a menu, you always start at the top. Press MENU to move down the Menu Tree. When you reach the bottom of the tree, pressing MENU again will return you to the top.

**SET:** Press SET to move across the Menu Tree and select options. When an option is committed to the transmitter's memory, the status LED will rapidly blink green.

**BACK:** Press both MENU and SET to go back one level in the Menu Tree.

**EXIT:** Press and hold MENU to exit programming. Your selected options will be saved.

**ECHO:** Press and hold SET to activate the "echo" function. Echo will "play back" your current position on the Menu Tree should you lose your place. For example: If your current position is Steering Channel End Points, holding SET will cause the LED to blink green twice, green once, and then red three times. Echo will not alter your adjustments or change your position in the programming sequence.

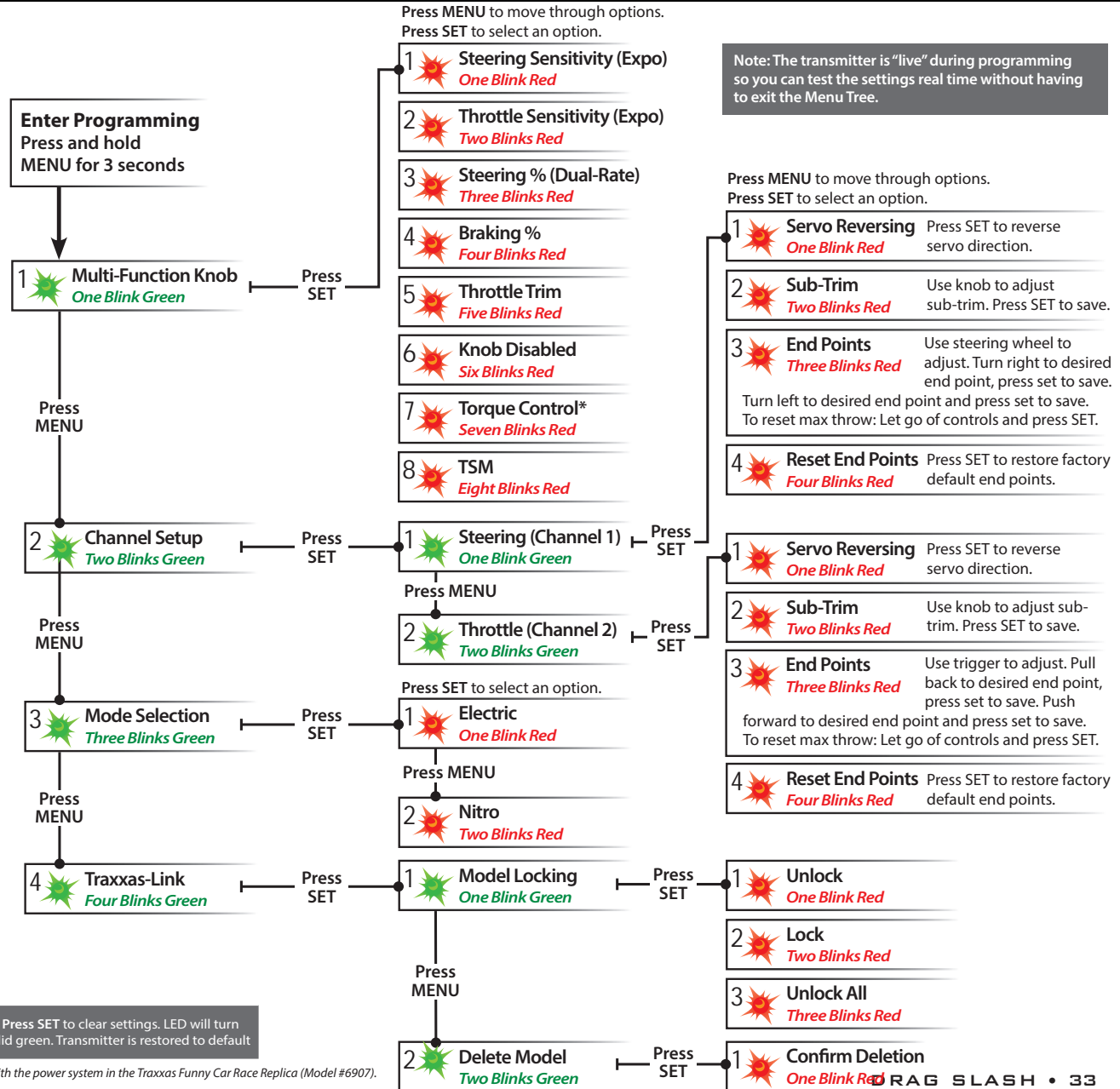
Below is an example of how to access a function in the Menu Tree. In the example, the user is setting the Multi-Function knob to be a Steering % (Dual-Rate) control.

- To set the Multi-Function knob to control STEERING % (DUAL-RATE):
1. Switch the transmitter on.
  2. Press and hold MENU until the green LED lights. It will blink in single intervals.
  3. Press SET. The red LED will blink in single intervals to indicate Steering Sensitivity (Expo) has been selected.
  4. Press MENU twice. The red LED will blink three times repeatedly to indicate Steering % (Dual-Rate) has been selected.
  5. Press SET to select. The green LED will blink 8 times fast to indicate successful selection.
  6. Press and hold MENU to return to driving mode.

**Restoring Factory Defaults:**

Transmitter OFF	Hold both MENU and SET	Transmitter ON	Release MENU and SET red LED blinks	Press SET to clear settings. LED will turn solid green. Transmitter is restored to default
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\*Torque Control is a feature designed only for use with the power system in the Traxxas Funny Car Race Replica (Model #6907).



Note: The transmitter is "live" during programming so you can test the settings real time without having to exit the Menu Tree.

Set Multi-Function knob for STEERING SENSITIVITY (Expo)	Press/hold MENU green LED blinks	Press SET red LED blinks	Press SET to confirm green LED blinks (x8)	Press/hold MENU returns to driving mode						
Set Multi-Function knob for THROTTLE SENSITIVITY (Expo)	Press/hold MENU green LED blinks	Press SET red LED blinks	Press MENU to confirm red LED blinks (x2)	Press SET to select green LED blinks (x8)	Press/hold MENU returns to driving mode					
Set Multi-Function knob for STEERING DUAL-RATE (%)	Press/hold MENU green LED blinks	Press SET red LED blinks	Press MENU twice red LED blinks (x3)	Press SET to select green LED blinks (x8)	Press/hold MENU returns to driving mode					
Set Multi-Function knob for BRAKING PERCENTAGE (%)	Press/hold MENU green LED blinks	Press SET red LED blinks	Press MENU 3 times red LED blinks (x4)	Press SET to select green LED blinks (x8)	Press/hold MENU returns to driving mode					
Set Multi-Function knob for THROTTLE TRIM	Press/hold MENU green LED blinks	Press SET red LED blinks	Press MENU 4 times red LED blinks (x5)	Press SET to select green LED blinks (x8)	Press/hold MENU returns to driving mode	Adjust the Multi-Function knob until the LED turns solid green.				
To LOCK the Multi-Function knob	Press/hold MENU green LED blinks	Press SET red LED blinks	Press MENU 5 times red LED blinks (x6)	Press SET to lock green LED blinks (x8)	Press/hold MENU returns to driving mode					
To REVERSE the direction of STEERING servo	Press/hold MENU green LED blinks	Press MENU green LED blinks (x2)	Press SET green LED blinks	Press SET red LED blinks	Press SET to reverse servo direction	Press/hold MENU returns to driving mode				
To set the SUB TRIM of the STEERING servo	Press/hold MENU green LED blinks	Press MENU green LED blinks (x2)	Press SET green LED blinks	Press SET red LED blinks	Press MENU red LED blinks (x2)	Use Multi-Function knob to set neutral	Press SET to save position	Press/hold MENU returns to driving mode		
To set the END POINTS of the STEERING servo	Press/hold MENU green LED blinks	Press MENU green LED blinks (x2)	Press SET green LED blinks	Press SET red LED blinks	Press MENU twice red LED blinks (x3)	Turn steering wheel to desired max left and right travel	Press SET to save each position	Turn steering wheel to test settings	IF END POINTS ARE OK: Press/hold MENU returns to driving mode	IF END POINTS NEED TO BE CHANGED: Press SET and repeat steps 6-8
To reset the END POINTS of STEERING servo to defaults	Press/hold MENU green LED blinks	Press MENU green LED blinks (x2)	Press SET green LED blinks	Press SET red LED blinks	Press MENU 3 times red LED blinks (x4)	Press SET to reset end points	Press/hold MENU returns to driving mode			
To REVERSE the direction of THROTTLE servo	Press/hold MENU green LED blinks	Press MENU green LED blinks (x2)	Press SET green LED blinks	Press MENU green LED blinks (x2)	Press SET red LED blinks	Press SET to reverse servo direction	Press/hold MENU returns to driving mode			
To set the SUB TRIM of the THROTTLE servo	Press/hold MENU green LED blinks	Press MENU green LED blinks (x2)	Press SET green LED blinks	Press MENU green LED blinks (x2)	Press SET red LED blinks	Press MENU red LED blinks (x2)	Use Multi-Function knob to set neutral	Press SET to save position	Press/hold MENU returns to driving mode	
To set the END POINTS of the THROTTLE servo	Press/hold MENU green LED blinks	Press MENU green LED blinks (x2)	Press SET green LED blinks	Press MENU green LED blinks (x2)	Press SET red LED blinks	Press MENU twice red LED blinks (x3)	Use throttle trigger to set desired max throttle or brake	Press SET to save Use trigger to test	IF END POINTS ARE OK: Press/hold MENU returns to driving mode	IF END POINTS NEED TO BE CHANGED: Press SET and repeat steps 7-9
To reset the END POINTS of THROTTLE servo to defaults	Press/hold MENU green LED blinks	Press MENU green LED blinks (x2)	Press SET green LED blinks	Press MENU green LED blinks (x2)	Press SET red LED blinks	Press MENU 3 times red LED blinks (x4)	Press SET to reset end points	Press/hold MENU returns to driving mode		

MENU TREE FORMULAS

To select functions and make adjustments to the TQi transmitter without referencing the Menu Tree, turn your transmitter on, find the function in the left column you wish to adjust, and simply follow the corresponding steps.



## PROGRAMMING YOUR TQi TRANSMITTER WITH YOUR APPLE IPHONE, IPAD, IPOD TOUCH, OR ANDROID DEVICE

The Traxxas Link™ Wireless Module (part #6511, sold separately) for the TQi transmitter installs in minutes to transform your Apple® iPhone®, iPad®, iPod touch®, or Android™ device into a powerful tuning tool that allows you to replace the transmitter's button/LED programming system with an intuitive, high-definition, full-color graphical user interface.



### Traxxas Link

The powerful Traxxas Link app (available in the Apple App Store™ or on Google Play™) gives you complete control over the operation and tuning of your Traxxas model with stunning visuals and absolute precision. Install Traxxas Link telemetry sensors on the model, and Traxxas Link displays real-time data such as speed, RPM, temperature, and battery voltage.

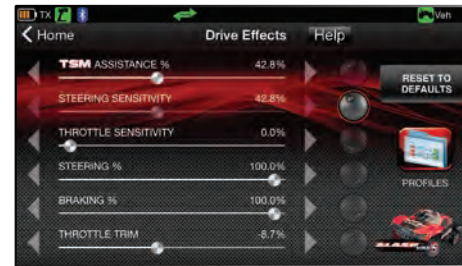


Compatible with:  
iPod touch (5th generation and later)  
iPad mini  
iPad Pro

iPad 2  
iPad Air  
iPhone 4s (and later)  
Android 4.4 (and later)

### Intuitive iPhone, iPad, iPod touch, and Android interface

Traxxas Link makes it easy to learn, understand, and access powerful tuning options. Control Drive Effects settings such as TSM assistance percentage; steering and throttle sensitivity; steering percentage; braking strength; and throttle trim by simply touching and dragging the sliders on the screen.



Tap and slide to adjust TSM, Steering Sensitivity, Throttle Trim, Braking Percent, and more!

### Real-Time Telemetry

When you equip your model with sensors, the Traxxas Link dashboard comes to life showing you speed, battery voltage, RPM, and temperature. Set threshold warnings and log maximums, minimums, or averages. Use the recording function to document your dashboard view, with sound, so that you can keep your eyes on your driving and not miss a single apex.



The customizable Traxxas Link dashboard delivers real-time rpm, speed, temperature, and voltage data.

### Manage up to 30 Models with Traxxas Link

The TQi radio system automatically keeps track of what vehicles it has bound to and what settings were used for each—up to 30 models total! Traxxas Link provides a visual interface to name the models, customize their settings, attach profiles, and lock them into memory. Simply choose a model and any previously bound transmitter, power them up, and start having fun.



Traxxas Link Model Memory simplifies organizing your collection of vehicles.

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**i** The Traxxas Link Wireless Module is sold separately (part #6511). The Traxxas Link application is available from the Apple App store for iPhone, iPad, or iPod touch and on Google Play for Android devices. iPhone, iPad, iPod touch, or the Android device are not included with the Traxxas Link Wireless Module.

For more information about the Traxxas Link Wireless Module and the Traxxas Link application, visit [Traxxas.com](http://Traxxas.com).

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