MODEL 56036-4





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Thank you for purchasing the new Traxxas E-Revo electric monster truck. The E-Revo is the most advanced electric racing monster truck ever created. The multiple National Champion winning Revo is already the pinnacle of engineering in the Nitro arena and now E-Revo breaks open an entire new category that embraces today's electric technology. Built from the start to be electric, E-Revo harnesses all the advantages that electric power brings to the race. The low center of gravity, balanced weight distribution, and incredible torsional rigidity yields the best handling Revo platform ever.

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 Owners Manual. This manual contains all the necessary set-up and operating procedures that allow you to unlock the performance and potential that Traxxas engineers designed into your model. Even if you are an experienced R/C enthusiast, it's important to read and follow the procedures in this manual.

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.



Ouick 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 7 to begin.

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

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.

Traxxas.com/register

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.

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

Traxxas offers a full-service, on-site repair facility to handle any of your Traxxas service needs. Maintenance and replacement parts may be purchased directly from Traxxas by phone or online at BuyTraxxas.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!

SAFETY PRECAUTIONS

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.

Batteries and Battery Charging

Your model uses rechargeable batteries that must be handled with care for safety and long battery life. Make sure to read and follow all instructions and precautions for charging and maintaining the batteries. It is your responsibility to charge and care for the battery packs properly. In addition to your battery and charger instructions, here are some more tips to keep in mind.

- 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.
- Do not operate the charger in a cluttered space, or place objects on top of the charger or battery.
- If a battery gets hot to the touch during the charging process (temperature greater than 140°F / 60°C), disconnect the battery from the charger and discontinue charging immediately.
- Always store battery packs safely out of the reach of children and pets.
- Do not short-circuit the battery pack. This may cause burns and severe damage to the battery pack and create the risk of fire.
- Do not expose the charger to water or moisture.
- Do not disassemble the charger.

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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 recommended. Models require a higher level of setup, maintenance, or support equipment.

- Never leave batteries to charge unattended.
- Remove the battery from the model while charging.
- Always unplug the battery from the electronic speed control when the model is not in use and when it is being stored or transported.
- Allow the battery pack to cool off between runs (before charging).
- Children should have responsible adult supervision when charging and handling batteries.
- Do not use battery packs that have been damaged in any way.
- Do not use battery packs that have damaged wiring, exposed wiring, or a damaged connector.
- Do not short-circuit the battery pack. This may cause burns and severe damage to the battery pack.
- Do not burn or puncture the batteries. Toxic materials could be released. If eye or skin contact occurs, flush with water.
- Store the battery pack in a dry location, away from heat sources and direct sunlight.
- Nickel Metal Hydride batteries must be recycled or disposed of properly.

Recycling Your Traxxas Power Cell NiMH Battery

Traxxas strongly encourages you to recycle your Power Cell NiMH battery when it has reached the end of its useful life. Do not throw your battery 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.

LiPo Batteries

Lithium Polymer (LiPo) batteries are becoming popular for use in R/C models due to their compact size, high energy density, and high-current output. However, these types of batteries require special care and handling procedures for long life and safe operation. WARNING: 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 14 use or handle LiPo battery packs without the supervision of a knowledgeable and responsible adult.

Your model is able to use LiPo batteries with nominal voltage not to exceed 7.4 volts (2S packs) for each battery (4S total). LiPo batteries have a minimum safe discharge voltage threshold that should not be exceeded. The EVX-2 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 on the speed control is just one part of a comprehensive plan for safe LiPo battery use. It is critical for you, the user, to follow all other 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.

Be aware that Traxxas shall not be liable for any special, indirect, incidental, or consequential damages arising out of the installation and/or use of LiPo batteries in Traxxas models. 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.

Speed Control

- Disconnect the Batteries: Always disconnect the batteries from the speed control when not in use.
- 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 heat sink can get extremely hot, so be careful not to touch it until it is cool. Supply adequate airflow for cooling.
- Always adhere to the minimum and maximum limitations of the EVX-2 as stated in the specifications table. 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.





Do not mix battery capacities. Use two batteries with the same capacity.

Do not use a 6-cell 7.2V battery in combination with a 7-cell battery 8.4V pack.

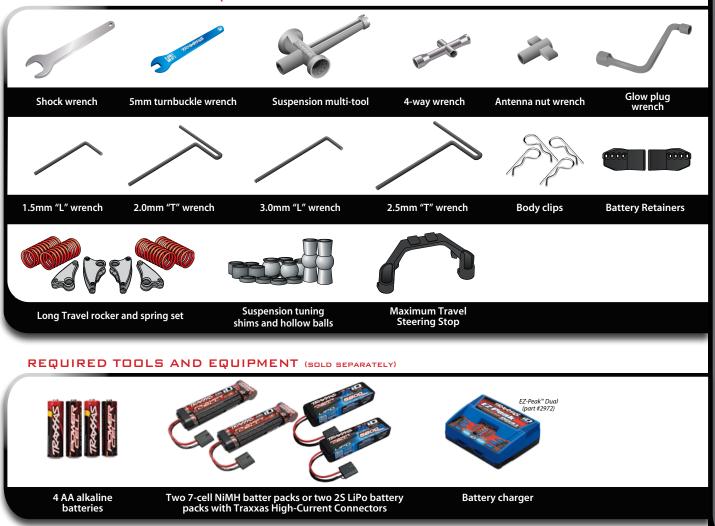
- Use Stock Connectors: If you decide to change the battery or motor connectors, only change one battery or motor connector at a time. This will prevent damage from accidentally mis-wiring the speed control.
 Please note that modified speed controls can be subject to a rewiring fee when returned for service. Removing the battery connector on the speed control or using connectors with no reverse-polarity protection on the speed control will void the product's warranty.
- Insulate the Wires: Always insulate exposed or damaged wiring with heat shrink tubing to prevent short circuits
- No Reverse Voltage: The speed control is not protected against reverse
 polarity voltage. When changing the battery and/or motor, be sure to
 install the same type of connectors to avoid reverse polarity damage to
 the speed control. Removing the battery connectors on the speed control
 or using the same-gender connectors on the speed control will void the
 product's warranty.
- No Schottky Diodes: External Schottky diodes are not compatible with reversing speed controls. Using a Schottky diode with the EVX-2 will damage the ESC and void the 30-day warranty.



TOOLS, SUPPLIES AND REQUIRED EQUIPMENT

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

SUPPLIED TOOLS AND EQUIPMENT





For more information on batteries, see *Use the Right Batteries* on page 11.

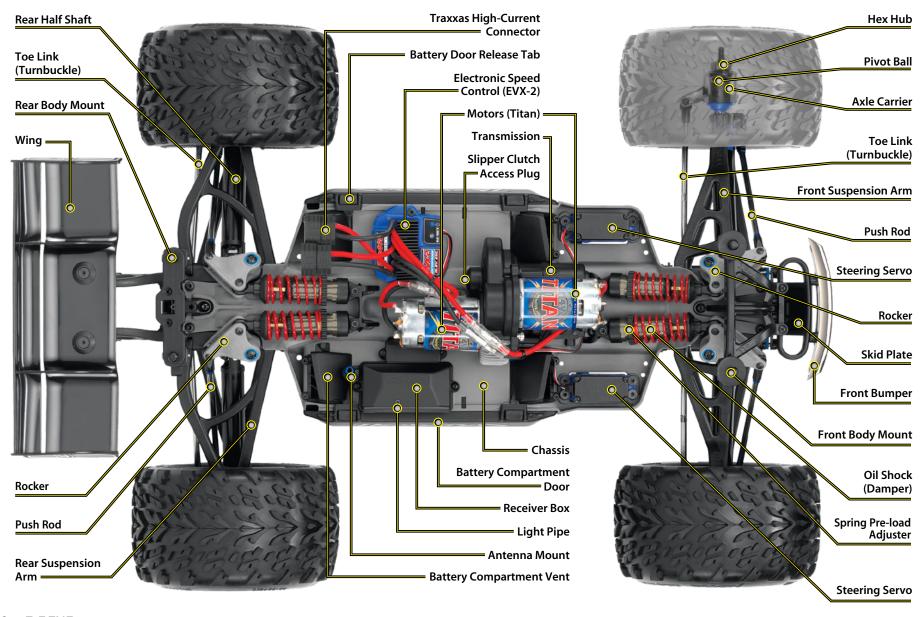


Recommended Equipment These items are not required for the appraising of your

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
- Philips screwdriver
- Soldering iron

ANATOMY OF THE E-REVO



QUICK START: GETTING UP TO SPEED

The following guide is an overview of the procedures for gett corners of Quick Start pages.	ing your model running. Look for the Quick Start logo on the bottom
1. Read the safety precautions on page 3-4	☐ 6. Check servo operation • See page 15
For your own safety, understand where carelessness and misuse could lead to personal injury.	Make sure the steering servos are working correctly.
2. Charge the battery packs • See sidebar, page 11	7. Range test the radio system • See page 15
Your model requires two battery packs and a compatible battery charger (not included). Never use a NiMH or NiCad charger to charge LiPo batteries.	Follow this procedure to make sure your radio system works properly at a distance and that there is no interference from outside sources.
3. Install batteries in the transmitter • See page 11	8. Detail your model • See page 8
The transmitter requires 4 AA alkaline batteries (sold separately).	Apply other decals if desired.
4. Install battery packs in the model • See page 12	9. Drive your model • See page 19
Your model requires two fully charged battery packs (not included).	Driving tips and adjustments for your model.
, , , , , , , , , , , , , , , , , , , ,	Driving tips and adjustments for your model. 10. Maintaining your model • See page 27
(not included).	



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.



TRAXXAS TQI RADIO SYSTEM



Applying the Decals

The main decals for your model have been applied at the factory. The 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 compliment 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 functions. The detailed instructions (page 32) and Menu Tree (page 35) 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.

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 32.

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

Current - Current is a measure of power flow through the electronics, usually measured in amps. If you 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 EVX-2 uses MOSFET power transistors 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.

550 and 540 - These numbers refer to the size of the motor. 550 motors have armatures that are 30% longer than 540 motors.

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

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

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

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

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

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

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

Resistance - In an electrical sense, resistance is a measure of how an object resists or obstructs the flow of current through it.

When flow is constricted, energy is converted to heat and is lost.

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

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

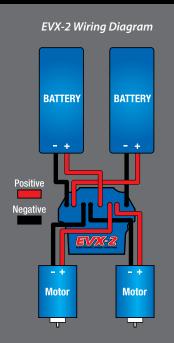
Trim - The fine-tuning adjustment of the neutral position of the servos, made by adjusting the throttle and steering trim knobs on the face of the transmitter. Note: The Multi Function knob must be programmed to serve as a throttle trim adjustment.

- **Thermal Shutdown Protection** Temperature sensing electronics are used in the ESC to 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.
- **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."
- **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

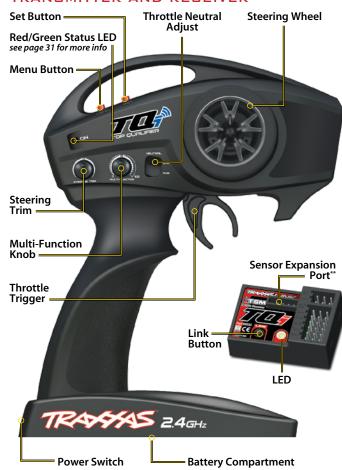
- Do not kink the receiver's antenna wire. Kinks in the antenna wire will reduce range.
- DO NOT CUT any part of the receiver's antenna wire. Cutting the antenna will reduce range.
- Extend the antenna wire in the model as far as possible for maximum range. It is not necessary to extend the antenna wire 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.

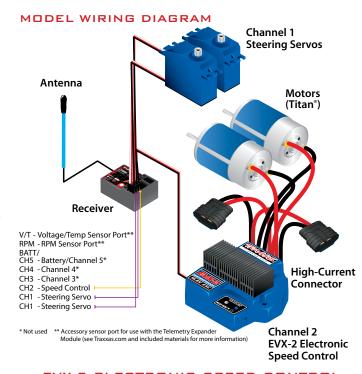




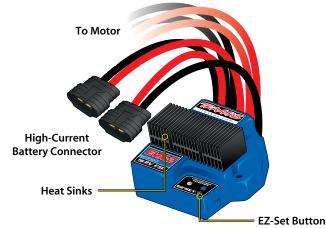
Your model is equipped with the newest TQi 2.4 GHz transmitter with Traxxas Link™ Model Memory. The transmitter has two channels for controlling your throttle and steering. The receiver inside the model has 5 output channels. Your model is equipped with one servo and an electronic speed control.

TRANSMITTER AND RECEIVER





EVX-2 ELECTRONIC SPEED CONTROL



^{**} Accessory sensor port for use with the Telemetry Expander Module (see Traxxas.com and included materials for more information)

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 compartment door and snap it closed.
- 4. Turn on the transmitter and check the status LED for a solid green light.

If the status LED flashes red, the transmitter batteries may be weak, discharged, or possibly installed incorrectly. Replace with new batteries. The status LED does not indicate the charge level of the battery pack

installed in the model. Refer to the Troubleshooting section on page 33 for more information on the transmitter Status LED codes.

SELECTING BATTERIES FOR YOUR MODEL

Your model does not include batteries or a charger. Two NiMH or LiPo batteries equipped with Traxxas High-Current Connectors are required. LiPo batteries are recommended for best performance. Traxxas Power Cell batteries are strongly recommended for maximum performance. The following chart lists all the available Power Cell batteries for your model:

LiPo Batteries

2843X	5800mAh 7.4V 2-Cell 25C LiPO Battery
2869X	7600mAh 7.4V 2-Cell 25C LiPO Battery

NiMH Batteries				
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)			

SELECTING A CHARGER FOR YOUR MODEL

Make certain you choose the correct type of charger for the batteries you select. You MUST use a LiPo charger for LiPo batteries or battery damage with the potential for fire will result (see Warnings and Precautions for full details). Traxxas recommends you choose a genuine Traxxas EZ-Peak iD charger for easy charging and maximum battery life and performance.

Charger	Part Number	NiMH Compatible	LiPo Compatible	Battery iD
EZ-Peak Plus, 4-amp	2970	YES	YES	YES
EZ-Peak Dual, 8-amp	2972	YES	YES	YES



If the status LED doesn't light green, check the polarity of the batteries. Check rechargeable batteries for a full charge. If you see any other flashing signal from the LED, refer to the chart on page 33 to identify the code.



Use the Right Batteries Your transmitter uses AA batteries. Use new alkaline batteries (part #2914). Do not use rechargeable AA batteries 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 to learn more about this feature and available Traxxas iD chargers and batteries.

INSTALLING BATTERY PACKS

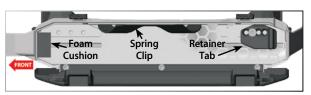
The E-Revo requires two fully charged NiMH battery packs. These batteries are not included with the model (see page 11 for available Power Cell batteries).

Using Different Battery Configurations

The battery compartments in the E-Revo are adjustable to accommodate a large variety of battery packs. From the factory, the battery compartments are configured to accept 7-cell NiMH stick packs.

The E-Revo battery compartments have three key features for keeping your batteries secure:

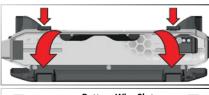
- 1. A foam rubber cushion
- 2. A spring clip (this is removable for use with taller batteries)
- 3. A battery retainer tab (this is adjustable to fit a variety of battery sizes)



We recommend using this combination for all NiMH batteries. Make sure to adjust the battery retainer tab to keep your battery pack snug against the foam rubber cushion. This does not need to be very tight. It only needs to prevent the battery from moving excessively during use.

Battery Installation

- 1. Open the battery compartment door by pressing on the release tabs.
- Install the battery pack with the battery wires facing the rear of the model.
- 3. Make sure the battery is snug in the compartment. If not, remove battery and



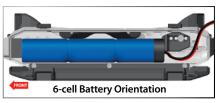


make adjustment to the battery retaining tab.

- 4. Route the battery wire through the slot near the vent.
- 5. Close the battery door, making sure not to pinch the battery wires. Be sure both release tabs are fully engaged with the door. Do not connect the battery packs to the EVX-2 at this time. **Note**: Always unplug the batteries and remove from the model after use.

6-cell battery packs:

Swap the battery retainer tabs from the left and right battery compartments. This will provide additional adjustment needed to

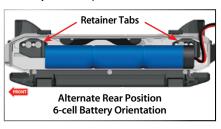


keep the 6-cell battery packs snug against the foam rubber cushions.

Adjusting Battery Position

The best handling and performance is achieved when the batteries are positioned to the front of the battery compartment (against the foam rubber cushion). However, you can reposition the batteries

to change the weight distribution and handling if desired. The E-Revo includes an extra set of battery retainer tabs that can be used in the front of the battery compartment to move the batteries toward the rear of the truck.



When using the battery retainer tabs in the front of the battery compartment, use two 3x10mm countersunk cap screws to retain each battery retainer tab. Do not use the battery retainer tabs in the front of the battery compartments when using LiPo batteries that are not in a hard plastic case.



The battery compartments can be reconfigured to accept many sizes of LiPo batteries. If you are using batteries that are very thick, the spring clip may need to be removed from the battery compartment.

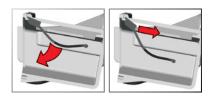
Spring Clip Removal

- 1. Pull down on the inside of the clip.
- 2. Push the clip in toward the center of the model to release.

Spring Clip Installation

- Insert the two tabs on the spring clip into the rectangular tab slots in the chassis.
- 2. Rotate the spring clip upward.
- 3. Snap the tabs into place.

Many LiPo batteries do not use a hard plastic case. If using LiPo batteries that do not have a hard case, always be sure to use the foam rubber cushion in the front of the battery compartment. Do not use the battery retainer tabs in the front of the battery compartments when using LiPo batteries that are not in a hard plastic case. A hard front impact or crash when driving can damage the LiPo batteries.







THE TRAXXAS HIGH CURRENT CONNECTOR

Your model is equipped with the Traxxas
High-Current Connector. Standard connectors
restrict current flow and are not capable of
delivering the power needed to maximize the
output of the EVX-2. The Traxxas connector's
gold-plated terminals with a 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.

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

RADIO SYSTEM CONTROLS



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

Throttle Neutral Adjustment

The throttle neutral adjustment is located on the transmitter face and controls the forward/reverse travel of the throttle trigger. Change the adjustment by pressing the button and sliding it to the desired position. There are two settings available:



50/50: Allows equal travel for both acceleration and reverse. 70/30: Allows more throttle travel (70%) and less reverse travel (30%).

Note: We strongly recommend to leave this control in its factory location until you become familiar with all the adjustments and capabilities of your model. To change the throttle neutral adjust position, turn the transmitter off before adjusting the neutral position. You will need to reprogram your electronic speed control to recognize the 70/30 setting. Turn to EVX-2 Setup Programming on page 17 for instructions.

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 16 for TSM adjustments.

Multi-Function Knob

The Multi-Function knob can be programmed to control a variety of functions. From the factory, the Multi-



Function knob controls Traxxas Stability Management (TSM). For more detail on TSM, refer to page 16.



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:

- Turn the transmitter switch on. The status LED on the transmitter should be solid green (not flashing).
- 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 packs in the model into the speed control.
- 4. The on/off switch is integrated into the speed control. With the transmitter on, press the EVX-2 set button for ½ second, until the LED shines GREEN, then immediately release the button. This turns the model on (see page 17 for more on EVX-2 setup and operation). To turn the EVX-2 off, press the set button until the green LED turns off. Always disconnect your batteries when the model is not in use.
- 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.
- When looking down at 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 16) 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.
- Gently operate the throttle trigger to ensure that you have forward and reverse operation, and that the motor stops when the throttle trigger is at neutral. Warning: Do not apply full throttle in forward or reverse while the model is elevated.
- 8. Once adjustments are made, turn off the receiver on your model, followed by the hand-held transmitter.

Range-Testing the Radio System

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

- 1. Turn on the radio system and check its operation as described in the previous section.
- 2. Have a friend hold the model. Make sure hands and clothing are clear of the wheels and other moving parts on the model.
- 3. Walk away from the model with the transmitter until you reach the farthest distance you plan to operate the model.
- 4. Operate the controls on the transmitter once again to be sure that the model responds correctly.
- 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 model, 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 model achieve its maximum speed, it is best to position yourself in the middle of the truck's running area, not the far end, so you drive the truck towards and past your position. In addition to maximizing the radio's range, this technique will keep your model closer to you, making it easier to see and control.

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

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 an additional transmitter or receiver, follow these instructions. **Note:** The receiver must be connected to a 4.8-6.0v (nominal) power source for binding and the transmitter and receiver must be within 5 feet of each other.

 Press and hold the transmitter's SET button as you switch transmitter on. The transmitter's LED will flash red slowly. Release the SET button



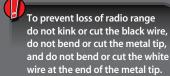
Using Reverse: While driving, push the throttle trigger forward to apply brakes. Once stopped, return the throttle trigger to neutral. Push the throttle trigger forward again to engage proportional reverse.

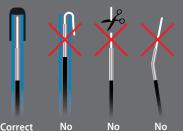


Automatic Fail-Safe

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 Fail-Safe activates while you are operating your model, determine the reason for signal loss and resolve the problem before operating your model again.







- 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.
- 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)



Traxxas Stability Management or TSM allows you to experience all the speed and acceleration that was engineered into your Traxxas model by helping you to maintain control

of the vehicle in low-traction situations. TSM helps provide straight ahead full-throttle acceleration on slippery surfaces, without fishtailing, spinouts, or loss of control. TSM also dramatically improves braking control. High speed cornering and control is also made possible as TSM makes corrections for you, without intruding on your fun, or creating unexpected side effects.

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 turn TSM completely off. **Note:** TSM is deactivated automatically when driving or braking in reverse.





When driving on surfaces with some traction, decrease the TSM setting to allow the vehicle to feel more "loose" for power sliding, drifting, and so on. On surfaces with very little traction (loose dirt, smooth concrete, ice/snow), increase TSM to maximize acceleration and control.

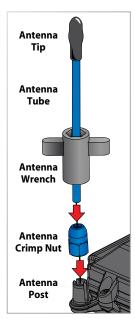
Drive with TSM on and off to test how it is making your control of the vehicle easier and more precise. For more information, visit Traxxas.com/tsm.

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

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 bottom of antenna tube until white tip of antenna is at top of 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 side bar for more information. Do not shorten the antenna tube.



ADJUSTING THE ELECTRONIC SPEED CONTROL

The EVX-2 electronic speed control is factory set and should not require any adjustments. These instructions are provided for your reference.

Battery Settings (Low-Voltage Detection Setting)

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 EVX-2 will limit the power output to 50% throttle. When the battery voltage attempts to fall below the minimum threshold, the EVX-2 will shut down all motor output. The LED on the speed control will slowly blink red, indicating a low voltage shutdown. The EVX-2 will stay in this mode until a fully charged battery is connected.

The EVX-2 speed control's Low Voltage Detection has been disabled for best performance with NiMH batteries. The speed control's LED will glow red when it is turned on, indicating Low Voltage Detection is disabled. Be certain to activate Low-Voltage Detection if you install LiPo batteries in your model. **Never use LiPo batteries while Low-Voltage Detection is disabled.**

Verify that Low-Voltage Detection is DISABLED:

- 1. Turn on the transmitter (with the throttle at neutral).
- 2. Connect fully charged battery packs to the EVX-2.
- Press and release the EZ-Set button to turn the EVX-2 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 EVX-2 is on and shines red.
- 2. Press and hold the EZ-Set button (the LED will turn off) (A). After ten seconds, the motor will beep twice and the LED will shine green. Release the button (B).





3. Low-Voltage Detection is now ACTIVATED.

To disable Low-Voltage Detection (NiMH setting):

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





Transmitter Adjustments for the EVX-2 ESC

Before attempting to program your EVX-2, it is important to make sure your TQi 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:

- 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.

Setup Programming (Calibrating your ESC and transmitter)
Read through all of the following programming steps before you begin. If you get lost during programming or receive unexpected results, simply unplug the batteries, wait a few seconds, plug the battery packs in, and start over.

Disconnect each of the motor wires between the EVX-2 and the motors. This
is a precaution to prevent runaway when the speed control is
turned on before it is programmed.

- 2. Connect two fully charged battery packs to the EVX-2.
- 3. Turn on the transmitter (with the throttle at neutral).
- Press and hold the EZ-Set button (A).
 The LED will first turn green and then red.
 Release the EZ-Set button.
- 5. When the LED blinks RED ONCE. Pull the throttle trigger to the full throttle position and hold it there (B).
- When the LED blinks RED TWICE. Push the throttle trigger to the full reverse and hold it there (C).
- 7. When the LED blinks GREEN ONCE, programming is complete. The LED will then shine green or red (depending on Low-Voltage Detection setting) indicating the EVX-2 is on and at neutral (D).

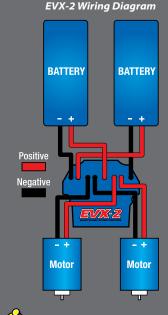
EVX-2 Operation

To operate the speed control and test the programming, place the vehicle on a stable block or stand so all of the driven wheels are off the ground. Reconnect the motor wires. Always make sure that objects and fingers are clear of the wheels.

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

- 1. With the transmitter on, press the EZ-Set button for ½ second, until the LED shines red, then immediately release the button. This turns on the EVX-2. If you press and release too quickly, you may hear the steering servos jump but the LED may not stay on. (Note: If the throttle is not at neutral or if the throttle trim has been altered, the LED will turn off after one second and the wheels may begin to drive.)
- Apply forward throttle. The LED will turn off until full throttle power is reached. At full throttle, the led will shine red.
- Move the trigger forward to apply the brakes. Note that braking control is fully proportional. The LED will turn off until full braking power is reached. At full brakes, the LED will shine red.





EVX-2 Specifications

Input Voltage:* NiMH - 12-14 cells (14.4 - 16.8 volts) LiPo - 4 cells (14.8 volts)

Motor limit: 12-turns (550)

Continuous current: 30A

Peak current: 180A

BEC voltage: 6.0V DC

Transistor type: MOSFET

Motor/Battery Wiring: 14-gauge

Protection: Thermal shutdown

* This model requires two battery packs. Input voltage listed by cells refers to the total number of cells that may be installed in the model. You may install two 6-cell NiMH packs, two 7-cell NiMH packs, or two 2-cell LiPo packs. DO NOT mix NiMH and LiPo battery packs. Damage to the model and batteries will result.

ADJUSTING THE ELECTRONIC SPEED CONTROL



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 EVX-2 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 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
SET button until the light blinks red
one time and then releasing.



Throttle Neutral Protection Your model's EVX-2 speed control also features Throttle Neutral Protection. If the transmitter's throttle trim setting is changed while the speed control is switched off. Throttle Neutral Protection prevents the speed control from activating the motor until the throttle trim is corrected. **Throttle Neutral Protection** also prevents the model from suddenly accelerating if the speed control is switched on while the transmitter's trigger is being held. When the trigger is returned to neutral, the EVX-2 will operate properly.

- 4. Return the throttle trigger to neutral. The LED will shine red.
- 5. Move the throttle trigger forward again to engage reverse (Profile #1). The LED will turn off. Once full reverse power is reached, the LED will shine red.
- 6. To stop, return the throttle trigger to neutral. Note that there is no programmed delay when changing from reverse to forward. Use caution to avoid slamming the speed control from reverse to forward. On high-traction surfaces, this could result in transmission or driveline damage.
- 7. To turn the EVX-2 off, press the EZ-Set button until the red LED turns off.

Thermal Shutdown Protection

The EVX-2 is equipped with thermal shutdown protection to guard against overheating caused by excessive current flow. If the operating temperature exceeds safe limits, the EVX-2 will automatically shut down and the EVX-2 LED will flash red. The LED on the face of the EVX-2 will continuously flash red, even if the throttle trigger is moved back and forth. After the speed control cools down to a safe level, the LED will continuously shine red. The EVX-2 will once again function normally.

EVX-2 Profile Selection

The speed control is factory set to Profile #1. To change the profile, follow the steps on described 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.

EVX-2 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)

- 1. Connect two fully charged battery packs to the EVX-2 and turn on your transmitter.
- With the EVX-2 off, press and hold the EZ-Set button until the light turns solid green, then solid red and then begins blinking red (indicating the Profile numbers).
- 3. When the light 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.

Green to Red to Off One blink Red C D Solid

Selecting Race Mode (Profile #2)

- 1. Connect two fully charged battery packs to the EVX-2 and turn on your transmitter.
- 2. With the EVX-2 off, press and hold the EZ-Set button until the light turns solid green, then solid red and then begins blinking red (indicating the Profile numbers).



- 3. When the light blinks red twice, release the EZ-Set button.
- The LED will blink and then turn solid green (Low-Voltage Detection ACTIVE) or red (Low-Voltage Detection DISABLED). The model is ready to drive.

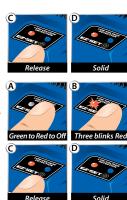
Selecting Training Mode* (Profile #3)

- 1. Connect two fully charged battery packs to the EVX-2 and turn on your transmitter.
- With the EVX-2 off, press and hold the EZ-Set button until the light turns solid green, then solid red and then begins blinking red (indicating the Profile numbers).
- 3. When the light 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 a Mode is selected.

LED Codes and Protection Modes

- Solid Green: EVX-2 power-on light. Low-Voltage Detection is ACTIVATED (LiPo setting).
- Solid Red: EVX-2 power-on light. Low-Voltage Detection is DISABLED (NiCad/NiMH setting). Never use LiPo batteries while Low-Voltage Detection is disabled.
- Fast Blinking Red: The EVX-2 is equipped with thermal shutdown protection to guard against overheating caused by excessive current flow. If the operating temperature exceeds safe limits, the EVX-2 will automatically shut down. Let the EVX-2 cool. Make sure your model is properly geared for the conditions (see page 25).
- Slow Blinking Red (with Low-Voltage Detection on): The EVX-2 has entered Low-Voltage Protection. When the battery voltage begins to reach the minimum recommended discharge voltage threshold for LiPo battery packs, the EVX-2 will limit the power output to 50% throttle. When the battery voltage attempts to fall below the minimum threshold, the EVX-2 will shut down all motor output. The LED on the speed control will slowly blink red, indicating a low-voltage shutdown. The EVX-2 will stay in this mode until a fully charged battery is connected.
- Fast Blinking Green: The EVX-2's LED will blink fast green if Throttle Neutral Protection is activated, or if the speed control is not receiving a signal. Make certain the speed control is properly plugged into the receiver and the transmitter is switched on. If this does not restore normal operation, then the EVX-2 is indicating the transmitter's Throttle Trim (see page 32) is incorrectly set. Reset the throttle trim to the "0" position.



18 • E-REVO

DRIVING YOUR MODEL

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

- Allow the model to cool for a few minutes between runs. This is particularly important when using high capacity battery packs that allow extended periods of running. Monitoring temperatures will extend the lives of the batteries and motors..
- Do not continue to operate the model with low batteries or you could lose control of it. Indications of low battery power include slow operation and sluggish servos (slow to return to center). Stop immediately at the first sign of weak batteries. When the batteries in the transmitter become weak, the red power light will begin to flash. Stop immediately and install new batteries.
- Do not drive the model at night, on public streets, or in large crowds of people.
- If the model becomes stuck against an object, do not continue to run the motors. 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 which 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 3000 mAh battery pack will theoretically run twice as long as a 1500 mAh 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 which 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 EVX-2 cool. Get plenty of airflow across the ESC heat sinks.
- Lower your gear ratio. Installing smaller pinion gears will lower your gear ratio and cause less power draw from the motors and batteries, and reduce overall operating temperatures. Always replace both pinion gears together.
- Maintain your model. Do not allow dirt or damaged parts to cause binding in the drivetrain. Keep the motors clean.

mAh Ratings and Power Output

The mAh rating of the battery can effect 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 E-Revo 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 E-Revo through puddles, wet grass, snow, and through other wet conditions. Though highly water resistant, the E-Revo 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.
- Even casual water contact can reduce the life of your motors. Special care must be taken to modify your gearing and/or your driving style in wet conditions to extend the life of the motors (details below).

Before Running Your Vehicle in Wet Conditions

- Consult the section "After Running Your Vehicle in Wet Conditions" before proceeding. Make sure you understand the additional maintenance required with wet running.
- 2. The wheels have small holes molded in to allow air to enter and exit the tire during normal running. Water will enter these holes and get trapped inside the tires if holes are not cut in the tires. Cut two small holes (4mm or 3/16" diameter) in each tire. Each hole should be near the tire centerline, 180 degrees apart.
- 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 visible protruding from the edge of the cover.



- 4. Confirm that your batteries can be used in wet conditions.
- 5. Use lower gearing (smaller pinion gears, as low as 12T) when running in mud, deep puddles, snow, or other similar situations that will restrict the tires and put much higher loads on the motors.

Motor Precautions

- Titan motor life can be greatly reduced in mud and water. If the motors get excessively wet or submerged, use very light throttle (run the motors 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 wet motors. Do not submerge the motors under water.
- Do not gear the motors by temperature when running in wet conditions.
 The motors will be cooled by water contact and will not give an accurate indication of appropriate gearing.

After Running Your Vehicle in Wet Conditions

- Drain the tires by spinning the tires at full throttle to "sling" the water out.
 An easy way to do this is to remove the body and set the truck upside down on a flat surface. Apply full throttle so the tires spin and throw the excess water out of the holes you cut into the tires.
- 2. Remove the batteries.
- 3. Rinse excess dirt and mud off the truck with low-pressure water, such as from a garden hose. Do NOT use pressure washer or other high-pressure water. Avoid directing water into the bearings, transmission, differentials, etc.
- 4. Blow off the truck with compressed air (optional, but recommended). Wear safety glasses when using compressed air.
- 5. Remove the wheels from the truck
- 6. Spray all the bearings, drive train, and fasteners with WD-40 $\!^{\rm s}$ or similar water displacing light oil
- 7. Let the truck stand or you may blow 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.
- 8. As a precautionary step, remove the sealed receiver box cover. While unlikely, humidity or tiny amounts of moisture or condensation may enter the receiver box during wet running. This can cause long-term problems with the sensitive electronics in the receiver. Removing the receiver box cover during storage allows the air inside to dry. This step can improve the long-term reliability of the receiver. It is not necessary to remove the receiver or unplug any of the wires.
- 9. Additional Maintenance: Increase your frequency of disassembly, inspection and lubrication of the following items: This is necessary after extended wet use or if the vehicle will not be used for an extended period of time (such as a week or longer). This additional maintenance is needed to prevent any trapped moisture from corroding internal steel components.
- Stub axle housing bearings: Remove, clean, and re-oil the bearings.
- Front and rear differential: Remove, disassemble, clean, and re-grease the differentials. Refer to your exploded view diagrams for help with disassembly and reassembly.

- Transmission: Remove, disassemble, clean, and re-grease the transmission components. Use a light coating of wheel bearing grease (from an auto parts store) on the metal gear teeth. No grease is required for the nylon gears. Refer to your exploded view diagrams for help with disassembly and reassembly.
- Titan motors: Remove the motors, clean with aerosol motor cleaner, and re-oil the bushings with lightweight motor oil. Be sure to wear eye protection when using spray aerosol cleaners.

RECEIVER BOX:

MAINTAINING A WATERTIGHT SEAL

Removing and Installing Radio Gear

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

Removing the Receiver

- 1. To remove the cover, remove the two 3x10mm button-head cap screws.
- 2. To remove the receiver from the box simply lift it out 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 2.8x8mm 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.
- Arrange the wires neatly using the wire guides in the receiver box. 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 (Traxxas part #1647) to the wire clamp.
- 5. Install the wire clamp and tighten the two 2.8x8mm cap screws securely.
- Using double-sided adhesive foam tape, install the receiver into the box and plug the wires into the receiver. Refer to page 10 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 O-ring is properly seated into the groove in the receiver box so that the cover will not pinch it or damage it any way.
- 8. Install the cover and tighten the two 3x10mm button-head cap screws securely.
- 9. Inspect the cover to make sure that the O-ring seal is not visible.





BASIC TUNING ADJUSTMENTS

This tuning and setup guide is separated into two sections- Basic and Advanced. E-Revo does not require any specialized knowledge or understanding of its unique suspension and drive train to perform typical, everyday setup and track tuning adjustments. Adjustment procedures for alignment, spring rate, damping, steering, and ride height are covered in the basic tuning section. Adjustments for the gear ratio, two-speed shift point, slipper clutch, and brake are also covered. In most cases, the basic information is all that is needed to tune E-Revo to perform well on a variety of surfaces.

E-Revo was engineered to provide sophisticated additional tuning options well beyond the basics that allow expert users to extract the maximum performance from the truck. The advanced tuning section (beginning on page 28) covers topics such as optional suspension rockers, roll center adjustment, caster adjustment, bump steer tuning, differential setup, and fine tuning the two-speed gear ratios. Make sure you fully understand the basic adjustments before experimenting with the advanced adjustments. Improper combinations of adjustments can adversely affect the performance of the truck, resulting in poor handling. If you don't know why you are changing an adjustment then you should leave it at its factory setting. Also included are instructions for using the Long-Travel rockers and springs supplied with E-Revo. The long travel rockers allow extreme suspension travel for rock crawling and rough, large-scale terrain. The long travel rockers allow the suspension to operate at its extreme mechanical limits and is recommended for advanced users.

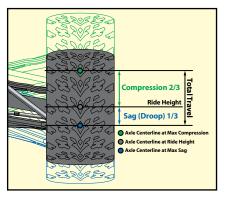
SUSPENSION TUNING

Springs

The front and rear springs on E-Revo have different spring rates. The rear springs are about 20% stiffer than the front springs. The spring's pre-load tension can be adjusted by turning the spring pre-load adjuster. Adjusting the pre-load changes the suspension sag. Suspension sag basically defines how much the suspension compresses when the truck is at rest. Adjust the pre-load so that the suspension compresses about one third of its full suspension travel (see illustration). If suspension sag is severe and requires a large increase of the spring pre-load to compensate, then a firmer spring should be used. Firmer springs (supplied) must be used when the Long Travel rocker arms are installed.

Use a stiffer spring to reduce sag, reduce body lean, control brake dive, and provide a firmer, more responsive overall feel. If E-Revo is

lightened significantly for racing applications, softer springs will be necessary to allow the suspension to sag properly. Heavier configurations will require stiffer springs. Ride height is adjusted by changing the length or position of the pushrods in the lower suspension arms. See the next section for ride



height adjustments. The suspension sag and spring pre-load should be readjusted anytime the springs are removed and/or replaced.

Optional springs available from Traxxas are listed below. Refer to your parts list for a complete part number listing. Higher rate springs are stiffer. Springs can be identified by dots of color on one end.

90mm Travel		120mm Travel			
Dot Color	Spring Rate	Dot Color	Spring Rate		
Yellow	14.8 lb/in (2.6 N/mm)	Silver	28.0 lb/in (4.9 N/mm)		
O White	16.6 lb/in (2.9 N/mm)	(Standard Fro	nt)		
(Standard Fro	nt)	Pink	30.8 lb/in (5.4 N/mm)		
Orange	18.3 lb/in (3.2 N/mm)	Blue	33.7 lb/in (5.9 N/mm)		
Green	20.0 lb/in (3.5 N/mm)	(Standard Rear)			
(Standard Rea	ır)	Purple	36.5 lb/in (6.4 N/mm)		
Gold	21.7 lb/in (3.8 N/mm)	Note: 90mm Trav	el springs are		
Tan	23.4 lb/in (4.1 N/mm)				
Black	25.1 lb/in (4.4 N/mm)	the Long Travel Rockers.			

Ride Height Adjustment

The rocker arm suspension uses push rods on each suspension arm. Changing the length and/or position of the push rod adjusts the ride height without affecting or compromising other suspension parameters. For example, you can raise and lower the ride height without changing up/down travel distribution, changing springs, or affecting your progressive rate. This feature is unique to E-Revo and is extremely beneficial in a racing environment where you can achieve a low center of gravity (by lowering the ride height) without losing any suspension capability. Increasing the ride height will increase ground clearance for rough terrain.

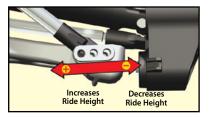


Important: The shocks are assembled at the factory with a center-to-center distance (between the rod end balls) of 87mm. Any time the shocks are removed and disassembled, this distance should be checked to ensure proper operation of the suspension.



The ride height of the model can be changed by mounting the push rod in a different hole in the lower suspension arm.

From the factory, the push rod comes installed in the center hole of the lower



suspension arm's push rod mount. If the push rod is mounted in the inner hole, the ride height of the vehicle increases. If mounted in the outer hole, the ride height decreases.

The ride height can be finely tuned by adjusting the sag of the suspension. Do not attempt to make large changes to the ride height by adjusting the spring pre-load on the shock bodies. If suspension sag is severe and requires a large increase of the spring pre-load to compensate, then a firmer spring should be used. The lowest ride height can be achieved by installing the optional adjustable push rod in the outermost hole of the lower suspension arm's push rod mount. Turn the rod ends all the way in until they stop (shortening the length).

The optional Long Travel rocker arms are designed to be used only with the standard non-adjustable push rods installed in the hole labeled "LT" (the middle hole of the lower suspension arm's push rod mount). Any minor adjustments to the ride height are accomplished by adjusting the spring pre-load.

Adjusting the Pivot Ball Caps

The pivot ball caps should be adjusted so that the pivot balls operate freely in the axle carriers with no excess play. Use the provided four-way suspension multi-tool to tighten or loosen the pivot ball cap.



Shock Oil

The 4 oil-filled aluminum shocks (dampers) effectively control the suspension movement by preventing the wheels and tires from continuing to "bounce" after rebounding from a bump. Changing the oil in the shocks can vary the suspension damping effect. Changing the

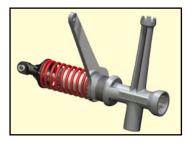
oil to a higher viscosity oil will increase damping. Lowering the viscosity of the oil will cause the suspension damping to be reduced. Damping should be increased (with higher viscosity oil) if the model is bottoming easily over jumps. Damping should be decreased (with thinner viscosity oil) if the model is hopping over small bumps and feels unstable. The viscosity of shock oil is affected by extremes in operating temperature; an oil of certain viscosity will become less viscous at higher temperatures and more viscous at lower temperatures. Operating in regions with cold temperatures may require lower viscosity oil. From the factory, the shocks are filled with SAE-40W silicone oil. Only use 100% silicone oil in the shock.

For shock piston tuning see Advanced Tuning Adjustments on page 28.

Replacing Shock Oil

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

- 1. Remove the lower spring retainer and shock spring.
- 2. Remove the upper shock cap using the shock wrench and the suspension multi tool



- 3. Empty the used shock oil from the shock body.
- 4. Fill the shock with new silicone shock oil up to the top of the shock body.
- 5. Slowly move the piston up and down (always keeping it submerged in oil) to release the air bubbles. Let the shock sit for a few minutes to allow any remaining air bubbles to surface.
- 6. Slowly thread the upper cap with the installed shock bladder onto the shock body with the suspension multi tool. The excess oil will bleed out of the small hole in the shock cap.
- 7. Tighten the shock cap until snug. Use the included steel shock wrench to hold onto shock body while tightening.

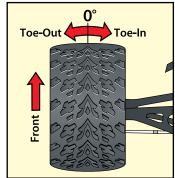
ALIGNMENT SETTINGS

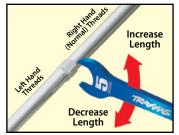
The alignment settings are critical for optimizing the performance of E-Revo. Adjust your alignment as carefully and precisely as you possibly can.

Toe Adjustment

The wheels can be adjusted to point straight ahead or have a toe-in or toe-out setting. To help you remember, look down at your feet. For toe-in, your feet point towards each other. For toe-out, your feet point away from each other.

The toe angle of the front wheels can be adjusted by varying the length of the toe links that connect the steering linkage to the front axle carriers. The toe angle of the rear wheels can be adjusted by varying the length of the metal toe links that connect the rear bulkheads to the rear axle carriers. The front toe links and rear toe links are equipped with turnbuckles. The lengths of the toe links can be adjusted by turning them with the included 5mm Traxxas wrench.





Toe Base Factory Settings

Front: 0-degrees

Rear: 1-degree toe-in each side

Under certain conditions, toe-in can be increased to a maximum of 3 degrees. To avoid potential interference of suspension components with the long travel rockers installed, see the maximum alignment limits table on page 24.

Static Camber Adjustment

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



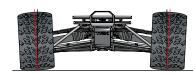
The suspension pivot balls located in the

axle carriers adjust the static camber. The pivot balls are protected by blue dust plugs. To adjust your static camber, insert the supplied 2.5 mm hex wrench through the slit in the dust plug and engage the end of the pivot ball (compressing the suspension until the arms are parallel to the ground will allow for easier hex wrench engagement). The upper pivot ball is normally screwed all

the way in. Negative camber is achieved by screwing the pivot ball of the lower control arm out. **Note:** When camber is changed, the toe angle of the wheel has to be reset.

Static Camber Base Factory Settings

Front: 1-degree negative camber each side **Rear:** 1-degree negative camber each side



Positive camber



Negative camber



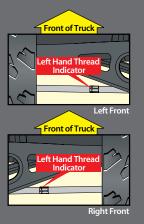
For caster, roll center, and optional rocker arm tuning see *Advanced Tuning Adjustments* on page 28.



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

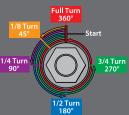


All of the toe links are installed on the truck so that the left hand thread indicators point to the same direction. This makes it easier to remember which way to turn the wrench to increase or decrease toe link length (the direction is same at all four corners). Note that the groove in the hex indicates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





To achieve a good starting point for the slipper clutch, tighten the slipper clutch adjusting nut clockwise until the slipper clutch adjusting spring fully collapses (do not over tighten), and then turn the slipper clutch nut counterclockwise ½ to ½ turn.



Maximum Alignment Limits (using stock push rod length)

E-Revo's maximum toe and camber alignment settings can be limited by the ride height setting. Do not exceed the maximum limits or you could experience interference between suspension components. The ride height is controlled by where the push rod is installed in the lower suspension arm. First determine which of the following configurations you are using:

- a. Stock Configuration When the pushrod is in the middle position of the lower control arm.
- b. Raised Configuration When the pushrod is in the raised position to increase the vehicle's ride height (innermost hole in lower control arm).
- c. Lowered Configuration When the pushrod is in the lowered position to decrease the vehicle's ride height (outermost hole in lower control arm).
- d. Long Travel Configuration When the pushrod is in the middle position of the lower control arm with the Long Travel rockers installed.

Front Suspension

The following are suggested maximum settings for the front suspension in order to avoid interference between suspension components:

•		Available Camber	Available Toe (degrees)			
	Configuration	(degrees)	Toe In	Toe Out		
	Stock	+3 to -5	3	3		
	Raised	+3 to -1	1	1		
	Lowered	+3 to -5	3	3		
	Long travel	+3 to -1	1	1		

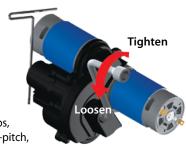
Rear Suspension

The following are suggested maximum settings for the rear suspension for all configurations. Toe out is not normally used on the rear of E-Revo.

	Available Camber	Available Toe (degrees)		
Configuration	(degrees)	Toe In	Toe Out	
All	+3 to -5	3	2	

TRANSMISSION TUNING

Adjusting the Slipper Clutch
The E-Revo is equipped with
an adjustable Torque Control
slipper clutch which is built
into the large spur gear. The
purpose of the slipper clutch
is to regulate the amount of
power sent to the rear wheels
to prevent tire spin. When it slips,
the slipper clutch makes a high-pitch,
whining noise.



To adjust the slipper clutch, remove the rubber slipper clutch plug on the transmission cover. The slipper clutch is integrated into the main spur gear on the transmission. The slipper clutch is adjusted using the spring-loaded locknut on the slipper shaft. Use the supplied universal wrench. To tighten or loosen the slipper nut, insert the 2.0mm hex wrench into the hole in the end of the slipper shaft. This locks the shaft for adjustments. Turn the adjustment nut clockwise to tighten (less slippage) and counter-clockwise to loosen (more slippage).

WHEELS AND TIRES

Many types of aftermarket tires and wheels can be adapted for use on your model. Most will affect the overall width and the suspension geometry of the model. The offsets and dimensions designed into the model's wheels are intentional; therefore, Traxxas cannot recommend the use of other non-Traxxas wheels with different specifications. The diameter of the wheels is an innovative design, and there is a variety of different tires available for you to experiment with in addition to the included tires on the model (listed in your parts list). Experimentation with different types of tires is recommended to see which ones work the best on the terrain where the model is run. When selecting tires, consider the overall diameter and the rubber compound (hard or soft). If the overall diameter of the tire is significantly increased, you will need to use a smaller pinion gear to compensate for the larger tire. Soft compound tires with many short spikes generally work better on hard, dry surfaces. In loose dirt, a tire with large spikes should perform better. See your parts list for accessory wheels and tires.

MOTORS AND GEARING

The Titan[™] 550 Motors on your E-Revo have been carefully designed to match the needs of the E-Revo. The Titans are made to run efficiently at high voltage to provide more torque and longer run times. We do not recommend converting the E-Revo to a typical low-voltage setup using traditional 540 size motors. While these components will physically fit into the E-Revo, the system will not run as efficiently, losing power in the form of motor and battery heating. The result will be shorter run times, high current draw, and extreme battery and motor temperatures.

The E-Revo is equipped from the factory with a 68-tooth spur gear and 19-tooth pinion gears. E-Revo has a large range of gearing making it suitable for many different types of applications and environments. If you want more acceleration and less top speed, use a smaller pinion gear (fewer teeth, higher numerical ratio). The overall reduction is the number of turns the motor makes for one revolution of the tire. Higher numerical ratios provide more torque, lower numerical ratios provide more top speed. With the Titan motors, do not use a pinion gear larger than 20-tooth with the stock 68-tooth spur gear with 6-cell battery packs or a pinion gear larger than 19-tooth with the stock 68-tooth spur gear when using 7-cell battery packs. Use the following formula to calculate the overall ratio for combinations not listed on the gear chart:

Spur Gear Teeth # Pinion Gear Teeth

Motor Configuration

The E-Revo uses an innovative, opposed motor mounting system for the Titan™ motors. To optimize efficiency and performance, the front and rear motors on the E-Revo are not the same. Their opposed mounting system requires special attention to correct motor installation.

If you remove the motors for cleaning or service, always be sure to install them in the correct location on the model. The motor with the "Reverse Rotation" label (#3975R) will always install to the front of the model. This motor is also identified by having longer motor wires. The second motor (#3975) will always mount to the rear of the model.

If the motors are installed incorrectly, the model will run backward.
 Reversing the motor wires if installed incorrectly is not recommended, as this will reduce efficiency, performance, and cause premature motor failure.

 Using two of the same part number motors in not recommended. Only use the correct motors in E-Revo. Be sure they are installed in the correct locations (#3975R in the front location, #3975 in the rear location).

If you are considering replacing the motor with aftermarket motors, look for 550 motors capable of 12 or more volts with 0° timing. If motors with internal timing are used, the front motor must have equal, but "reverse" timing of the rear motor. See page 31 for more information on motor replacement.

Adjusting Gear Mesh

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

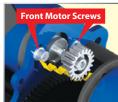
To set the gear mesh, cut a narrow strip of notebook paper and run it into the gear mesh of the front motor. The front motor is held in place with two motor screws. Loosen the motor screws and slide the motor and pinion gear into the spur gear. Retighten the motor screws and then remove the strip of paper. You should be able to run a fresh strip of paper through the gears without binding them.

Next, run the strip of notebook paper into the gear mesh of the rear motor. The rear motor is mounted to an aluminum motor mount. Loosen the single motor mount screw with the provided 3mm wrench to slide the motor mount. Slide the motor and pinion gear into the spur gear. Retighten the motor mount screw and

then remove the strip of paper. You should be able to run a fresh strip of paper through the gears without binding them.









Gearing Compatibility Chart:
The chart below 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.

Spur Gear

		62	65	68
	12			29.57
	13			27.29
	14		24.23	25.34
ī	15		22.61	23.65
Pinion Gear	16		21.20	22.18
nior	17	19.03	19.95	20.87
<u>Z</u>	18	17.97	18.84	19.71
	19	-	17.85	18.67
	20	-	-	17.74
	21	-	-	-
	22	-	-	-

Stock factory gearing

Not for 14-cell battery running

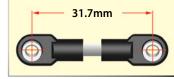
Not recommended

DUAL SERVO STEERING SYSTEM

E-Revo uses dual-servo steering and a single heavy-duty servo saver for powerful, responsive steering. To prevent unnecessary receiver battery drain it is important to make sure that the servos are "at rest" when the steering is at neutral. If one servo is out of adjustment, then both servos will work against each other, fighting to find center.

Adjusting The Steering System

- 1. Remove the servo horns and steering links from the servos. Disconnect the steering links from the servo saver.
- Adjust both the steering links to be the exact same length (31.7mm - use "Steering Servo Horn Link Length Template" to set length).



Steering Link Length Template

4. Turn off TSM (see page 16).

3. Switch on the power to the

receiver and the transmitter.

- Adjust the steering trim on the transmitter to the neutral "0" position.
- Connect one end of a steering link to the steering servo saver arm and the other end to the servo horn.
- 7. Position the steering servo saver arm perpendicular to the centerline of the vehicle.
- 8. While holding the steering servo saver arm in the position mentioned in step 6, install the servo horn onto the servo such that the steering link is parallel with the centerline of the vehicle. This will automatically set the servo horn at the 7-degree offset shown in the illustration.



Install the second servo horn on the other side following the same procedure.

If necessary, fine-tune the length of the second steering link to eliminate any load on the steering system in the neutral position. If you are using aftermarket servos, it is important to use servo horns designed for E-Revo. Optional steering servo horns are sold separately for use with non-Traxxas servos.

Servo Saver Tuning

An optional stiffer spring is available for the servo saver when using servos with metal gear sets (see parts list for details). Do not use this spring with standard Traxxas high-torque servos.

Maximum Travel Steering (optional)

The stock E-Revo steering system provides a good balance between steering sensitivity and turning radius. E-Revo includes an optional maximum travel steering stop which can be installed for maximum steering throw, which may be desired in racing applications. This provides sharper turning at low speeds, but also makes the steering more sensitive at high speeds.

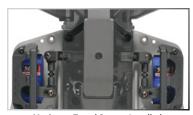


Maximum Travel Steering Stop

To increase the steering throw, replace the stock steering stop with the included maximum travel steering stop on the model. This part has modified steering stops to allow increased travel. Once installed, reposition the steering links to the outer holes on both steering servo horns. Refer to the exploded views included with the model to assist installation.



Stock Steering System



Maximum Travel System Installed

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



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

MAINTAINING YOUR MODEL

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.
- Check the mounting of the receiver and servo(s) and speed control.
- 6. Check the tightness of the wheel nuts with a wrench.
- 7. Check the operation of the radio system, especially the condition of the batteries.
- 8. Check for any loose screws in the chassis structure or suspension.
- 9. Inspect the gears for wear, broken teeth, or debris lodged between the teeth.
- 10. Check the tightness of the slipper clutch.
- 11. Check the tightness of the front pivot balls.

Other periodic maintenance:

- Slipper clutch 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.

- Motors: Every 10-15 runs, remove, clean, and lubricate the
 motors. Use a product such as electric motor cleaning spray to
 flush dirt out of the motors. After cleaning, lubricate the bushings
 at each end of the motors with a drop of light-weight electric
 motor oil.
- 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 #5462.
- Suspension: Periodically inspect the model for signs of damage such as bent or dirty suspension pins, bent turnbuckles, loose screws, and any signs of stress or bending. Replace components as needed.
- Driveline: Inspect the driveline for signs of wear such as worn drive yokes, dirty axle half shafts, and any unusual noise or binding. Remove the gear cover and Inspect the spur gear for wear and check the tightness of set screws in the pinion gears. Tighten, clean, or replace components as needed.

Storage

When you are through running the model for the day, blow it off with compressed air or use a soft bristled paint brush to dust-off the vehicle. Always disconnect and remove the batteries 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.



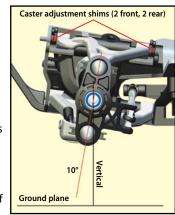
ADVANCED TUNING ADJUSTMENTS

This advanced tuning guide will take you one step further into the cutting edge technology that has been designed into E-Revo. Follow the instructions provided here to take advantage of E-Revo's maximum performance potential.

SUSPENSION AND ALIGNMENT SETTINGS

Caster Adjustment

The caster angle of the front suspension may be used to adjust the understeer (push)/oversteer handling characteristics of the model. Generally, increasing the caster angle will move the truck towards an oversteer condition (more traction on the front tires, less on the rear tires). Decreasing the caster angle will create a tendency towards understeer (pushing in the turns). From the factory, the front suspension is set to a caster angle of 10-degrees. The rear caster angle is not adjustable. The caster angle of the front suspension can be adjusted from 5° to 15°. Adjust the caster by positioning the caster adjustment shims on the upper control arms of the front suspension as shown in the table to the right.



Number & Position of Caster Adjustment Shims (Front Upper Control Arm) 1.5 . (5.11.111

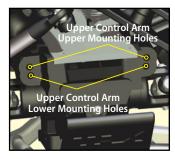
Caster	In Front of Hinge Pin Boss	Behind Hinge Pin Boss
5.0°	None	Four
7.5°	One	Three
10.0°	Two	Two
12.5°	Three	One
15.0°	Four	None

Caster Angle, and Bump Steer

Bump steer is unwanted change in the steering angle of the front wheels as the suspension travels up and down. It can result in unstable and unpredictable handling. Bump steer is affected by the position of the outer toe link end on the axle carrier. From the factory, the toe links are positioned so that bump steer is virtually eliminated (about 3/100 of a degree through the entire range of travel). When the caster angle is changed, the outer toe link end should be repositioned on the axle carrier to maintain zero bump steer geometry. Adjustment is achieved using the shims and hollow balls provided with the vehicle. Refer to the Bump Steer Elimination chart on page 29, and look up your caster angle setting to find the correct position for the outer toe links. Positioning the toe-links correctly will maintain the original factory geometry and eliminate the unwanted steering angle changes caused by bump steer.

Roll Center

There are two holes on the bulkheads to mount each upper suspension arm. The roll center of the vehicle can be raised by mounting the upper control arm in the lower of the two holes. This will effectively increase the roll stiffness of the vehicle (similar to installing swaybars). Adding roll resistance to one end of the vehicle will tend to



add traction to the opposite end. For example, increasing roll resistance in the rear by installing the upper arms in the lower holes will provide more traction for the front wheels and potentially more steering. Installing the upper arms in the lower holes on the front and rear will increase overall roll resistance without changing the handling balance. The arms are installed in the upper position from the factory to make the truck easier and more forgiving to drive and less likely to traction roll in turns. The lower holes should be reserved for track tuning. **Note:** When the upper suspension arms are moved to the lower holes, the front outer toe link ends and the rear toe control links should be repositioned to eliminate bump steer. Refer to the Bump Steer Elimination chart on page 29, and look up your suspension combination (caster angle and roll center position) to find the correct position for the front outer toe links and the rear toe control links. Adjustment is achieved using the shims and hollow balls provided with the vehicle.

Rockers (Progressive Rate/ Suspension Travel)

One of the most exciting aspects of E-Revo's suspension is the inboard shock (damper) arrangement that uses pivoting rockers to translate vertical wheel travel into linear shock motion. The rockers can be changed to increase or decrease the maximum wheel travel and also to change the progressive rate of the suspension.

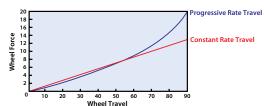
The progressive rate determines how much the force at the wheel produced by the springs being compressed (wheel force) will vary with suspension travel (or vertical travel of the wheel). On a progressive suspension arrangement, the wheel force will increase at a faster and faster rate as the suspension is compressed. It feels as though the shock spring gets progressively stiffer the more you compress the suspension. On a linear suspension arrangement, the wheel force increases linearly as the suspension is compressed. The spring does not feel any stiffer, even when the suspension is fully compressed. This provides a very "plush" feeling suspension with seemingly bottomless suspension travel.

Rocker Arm	Total Travel	Progressive Rate
Progressive 1	90mm (60mm up / 30mm down)	Low
Progressive 2	90mm (60mm up / 30mm down)	Medium
Progressive 3	90mm (60mm up / 30mm down)	High
Long Travel	120mm (80mm up / 40mm down)	Low

A total of four different rocker arm sets are available for E-Revo. All rocker arms except the Long Travel rocker arms will allow the wheel to travel a total of 90mm in the vertical direction. From the ride height position, the wheel will be able to travel 60mm in the upward direction (bump), and 30mm in the downward direction (droop). The Long Travel rocker arm increases total travel to 120mm. The progressive rate can be increased or decreased by installing different rocker arm sets. The rockers are labeled Progressive 1 to Progressive 3. Progressive 1 rockers will provide a low progressive rate that maintains consistent damping force across through the whole range of suspension travel. These are best for extremely rough terrain that requires maximum suspension articulation. Progressive 3 rockers use high progressive rate that will improve high-speed cornering on smooth surfaces by providing a firmer feel. Body roll, brake dive and rear squat will also be reduced. Always change all four rockers as a complete set. Do not mix rates and travel.

Using rockers with lower progressive rate may require the use of stiffer springs to maintain proper spring pre-load and ride height. The spring pre-load adjuster on each shock is designed for minor adjustments. If the adjuster needs to be turned all the way down (compressing the spring) in order to maintain proper ride height, then the next stiffer spring should be used.

The chart below demonstrate the effect of the various rocker arms on wheel force as the suspension is compressed. On the progressive rate, wheel force is light at first and increases as the suspension is compressed.



Bump Steer Elimination Chart

The illustrations and the following table detail the position of the outer toe link end for various caster and roll center settings to eliminate bump steer. The shims and the hollow balls used to adjust bump steer are provided with your vehicle.

FRONT Outer Toe Link End Setup	5°	7.5°	Caste 10°	r 12.5°	15°	Control Arm Mounting Hole on Front Bulkhead
Standard Hollow Ball —					•	Upper
Thin Shim — Thick Shim				•		Lower
Thin Shim ————————————————————————————————————				•		Upper
Hollow Ball Thick Shim			•			Lower
Tall Center			•			Upper
Hollow Ball		•				Lower
Thick Shim Standard		•				Upper
Hollow Ball — Thin Shim	•					Lower
Thick Shim Thin Shim	•					Upper
Standard Hollow Ball				_		Control Arm

REAR

When the rear upper control arms are mounted in the lower of its two mounting holes in the bulkhead (roll center), the tall hollow ball should be used as shown.

Outer Toe Link End Setup	Control Arm Mounting Hole on Rear Bulkhead
Tall Lower Hollow Ball	Upper
Tall Center Hollow Ball (stock)	Lower



When using Long Travel rockers, A correspondingly thicker shock oil (or pistons with smaller diameter bypass holes) should also be used to ensure a proper relationship between the spring and damping forces.

Shock Piston Hole Sizes Piston 1: 1.10 mm Piston 2: 1.00 mm

Piston 3: 0.95 mm

Never slide the threads on the shock rod past the X-ring seal when it is installed and compressed by the bottom cap of the shock. Doing so will damage the seal and cause shock oil to leak.

SHOCK TUNING

Shock Pistons

The shock pistons can be replaced with the available optional pistons to vary the amount of damping. Optional pistons with bypass holes that are larger or smaller (1, 2, or 3) than the factory installed stock pistons can be used to decrease or increase damping respectively. Change the pistons if you only have one weight of shock oil available to you. From the factory, E-Revo is equipped with #1 pistons in the front and #2 pistons in the rear.

Shock disassembly

The shocks must be removed from the vehicle and disassembled to change the pistons. Use the shock exploded views included with the model to aid in the assembly process.

- 1. Remove the spring and lower spring retainer from the shock.
- 2. Remove the shock cap (A) and empty the shock body of shock oil.
- 3. Remove the lower cap (B) and the X-ring from the shock body.
- 4. Use side cutters to grip the shock shaft just above the rod end (C).

Remove the rod end from the shock shaft using the suspension multi tool (C).

5. Remove the shock shaft with piston from the shock body out through the top of the shock body.

Shock assembly

- 1. Replace the stock piston with desired optional piston. Be careful not to lose the small washer located below the piston.
- 2. Position the new piston onto the shock shaft above the small washer. Grip the threads of





Piston Installation/Remova

- the shaft with side cutters or needlenose pliers and tighten the nut with the 4-way wrench to secure the assembly.
- 3. Insert the shock shaft assembly through the shock body until the piston bottoms out.
- 4. Lubricate the shaft and X-ring with silicone oil.
- Install the X-ring over the shaft and into the bore of the shock body.
- Install the lower cap using the suspension multi tool (B).
- 7. Slide the bump stop onto the shaft.
- 8. Grip the shaft close to the threads with needle nose pliers or side cutters and thread the rod end onto the shock shaft until the rod end bottoms out (C).
- 9. Fill the shock with new silicone shock oil up to the top of the shock body. Slowly move the piston up and down (always keeping it submerged in oil) to release the air bubbles. Let the shock sit for a few minutes to allow any remaining air bubbles to surface.
- 10. Slowly thread the upper cap with the installed shock bladder onto the shock body with the suspension multi tool (A). The excess oil will bleed out of the small hole in the shock cap. Tighten the shock cap until snug. Use the included steel shock wrench to hold onto shock body while tightening.
- 11. Reinstall the spring and lower retainer.

Tuning The Sealed Gear Differentials

E-Revo's front and rear gear differentials allow the left and right wheels to spin at different speeds while turning so that the tires do not scuff or skid. This decreases the turning radius and increases steering performance.

The performance of the differentials can be tuned for different driving conditions and performance requirements. The differentials are filled with silicone differential fluid, and are sealed to maintain consistent long-term performance. Changing the oil in the differential with either lower or higher viscosity oil will vary the performance characteristics of the differentials. Changing to a higher viscosity oil in the differential will reduce the tendency for engine power to be transferred to the wheel with the least traction. You may notice this when making sharp turns on slick surfaces. The unloaded wheels on the inside of the turn have the least traction and tend to spin up to extremely high rpms. Higher viscosity (thicker) oil causes the differential to act like a limited-slip differential, distributing more equal power to the left and right wheels. E-Revo will generally benefit from higher viscosity oil when climbing,

rock crawling, or racing on low traction surfaces. **Note:** Heavier oil will allow power to be transferred even with one or more tires off the ground. This can make the vehicle more likely to overturn.

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

Installing the Long Travel Rockers

Use the exploded views included with the model to aid in the installation process. All of the rockers have labels identifying their proper location; RF (right front), LF (left front), RR (right rear), and LR (left rear). **Note:** The exhaust system must be removed to access the rear rocker arms.

1. Remove shock absorbers

Remove the screws that secure the shocks to the chassis shock mounts, and to the rocker arms.

2. Install long travel shock springs

Replace all four of the 90mm travel shock springs with the four 120mm long travel shock springs. The front shock springs are indicated by a silver dot, and the rear shock springs are indicated by a blue dot.

3. Install long travel rockers

Replace the 90mm travel rockers with the long travel rockers by removing the four 4x6 buttonhead cap screws from the rocker pivot posts. Remove the 5x11 ball bearings from the rockers. Install the same 5x11 ball bearings in the long travel rockers. Secure the long travel rockers to the pivots with the same 4x6 buttonhead cap screws.

4. Locate push rods

Make sure that all four of the suspension push rods are located and secured into the middle position (marked LT) on the lower suspension arms.

5. Reinstall shock absorbers

Reinstall all four shock absorbers back into their respective locations.

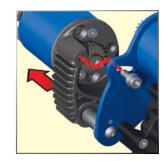
GOING BRUSHLESS

Brushless motors provide increased power output and greater efficiency. The E-Revo is designed with extra transmission and driveline strength to make it capable of handling extreme brushless power. One or two brushless motors may be used. A specially designed motor plate

(part # 5690X) and gear cover (part # 5677R) are available for optimized, single-motor installations. If you plan to run two brushless motors, be certain that the front motor is wired for reverse rotation.

MOTOR INSTALLATION

To access the motors, remove the gear cover by removing the single screw on the top of the gear cover. The front motor is held in place with two motor screws. Simply remove the two screws to remove the motor. The rear motor uses an aluminum mount for quick, easy motor access and gearing adjustment. To remove the rear motor, remove the single large hex



screw using the supplied 3mm wrench. Then rotate the motor and mount to the side of the model, and slide backward off the post.

The rear motor mount was carefully engineered to provide additional features and adjustability. Two sets of holes are provided for use with aftermarket motors. These use 3mm screws with 25mm spacing that is compatible with most aftermarket motors. These are:

- Low CG (center of gravity) installation (mounts the motor low to the chassis for best handling performance)
- High CG installation (mounts motor higher for more clearance for larger motors or aftermarket heat sinks)

An additional set of motor mounting holes is included for custom application. This is for larger aftermarket motors with 4mm screws and 29 - 30mm spacing.



Low CG
High CG
Big Motors

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

1-888-TRAXXAS

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



Use higher viscosity (thicker) diff oil for:

- More power to the wheels with the most traction.
- Racing on low-traction smooth surfaces .
- Better performance for climbing on uneven terrain.

Using lower viscosity (thinner) diff oil for:

- More power to the wheels with least traction.
- Racing on low-traction rough surfaces.

TQ: ADVANCED TUNING GUIDE



Starting Over:

Restoring Factory Defaults

When programming your 2.4GHz transmitter, you may feel the need to start over with a clean slate. Follow these simple steps to restore the factory settings:

- 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 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 16). 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 35. Experiment with the settings and features to see if they can improve your driving experience.

Steering Sensitivity (Exponential)

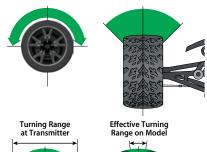
The Multi-Function knob on the TQi transmitter can be set to control Steering Sensitivity (also known as exponential). The standard setting for Steering Sensitivity is "normal (zero exponential)," with the dial full left in its range of travel. This setting provides linear servo response: the steering servo's movement will correspond exactly with the input from the transmitter's steering wheel. Turning the knob clockwise from center 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.

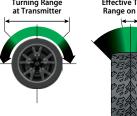
Normal Steering Sensitivity (0% exponential):

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 counter-clockwise reduces steering throw (note: turning the dial counter-clockwise 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 counter-clockwise 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.

TRANSMITTER LED CODES

LED Color	/ Pattern	Name	Notes	
•	Solid green	Normal Driving Mode	See page 14 for information on how to use your transmitter controls.	
•	Slow red (0.5 sec on / 0.5 sec off)	Binding	See page 15 for more information on binding.	
* *	Flashing fast green (0.1 sec on / 0.15 sec off)	Throttle Trim Seek Mode	Turn the Multi Function knob right or left until the LED stops flashing. See page 32 for more information.	
*	Flashing medium red (0.25 sec on / 0.25 sec off)	Low Battery Alarm	Put new batteries in the transmitter. See page 11 for more information.	
* *	Flashing fast red (0.125 sec on / 0.125 sec off)	Link Failure / Error	Transmitter and receiver are no longer bound. Turn the system off and then back on to resume normal operation. Find source of the link failure (ie out of range, low batteries, damaged antenna).	
Programming Patterns				
₩ or ₩	Counts out number (green or red) then pauses	Current menu position	See Menu Tree for more information.	
₩ x8	Fast green 8 times	Menu setting accepted (on SET)		
₩ x8	Fast red 8 times	Menu SET invalid	User error such as trying to delete a locked model.	

RECEIVER LED CODES

LED Color / Pattern		Name	Notes
•	Solid green	Normal Driving Mode	See page 14 for information on how to use your transmitter controls.
* 0	Slow red (0.5 sec on / 0.5 sec off)	Binding	See page 15 for more information on binding.
* *	Flashing fast red (0.125 sec on / 0.125 sec off)	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.



Failsaf

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.

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 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.
- 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 LED will blink red twice repeatedly.
- 7. Press SET, the LED will blink rapidly green. The memory is now locked. Press and hold MENU 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.
- 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.
- 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.

Note: The transmitter is "live" during programming

so you can test the settings real time without having

Servo Reversing Press SET to reverse

servo direction.

Use knob to adjust

Use steering wheel to

sub-trim. Press SET to save.

to exit the Menu Tree.

Press MENU to move through options.

Press SET to select an option.

One Blink Red

Two Blinks Red

Sub-Trim

End Points

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.
- 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.
- **ECHO:** Press and hold SET to activate the "echo" function. Echo will "play back" your current position on the If your current position is Steering Channel End twice, green once, and then red three times. Echo will not alter your adjustments or change your

Knob Disabled adjust. Turn right to desired Three Blinks Red BACK: Press both MENU and SET to go back one level in Six Blinks Red end point, press set to save. the Menu Tree. Turn left to desired end point and press set to save. **Press** Torque Control* **EXIT:** Press and hold MENU to exit programming. To reset max throw: Let go of controls and press SET. MENU Seven Blinks Red Your selected options will be saved. **Reset End Points** Press SET to restore factory TSM default end points. Four Blinks Red Eiaht Blinks Red Menu Tree should you lose your place. For example: Steering (Channel 1) Press Channel Setup Press Servo Reversing Press SET to reverse SET SET Two Blinks Green One Blink Green Points, holding SET will cause the LED to blink green One Blink Red servo direction. **Press MENU** Sub-Trim Use knob to adjust sub-Press position in the programming sequence. Throttle (Channel 2) Press trim. Press SET to save. Two Blinks Red MENU Two Blinks Green Use trigger to adjust, Pull Below is an example of how to access a function in the Menu **End Points** Tree. In the example, the user is setting the Multi-Function knob back to desired end point, Three Blinks Red Press SET to select an option. to be a Steering % (Dual-Rate) control. press set to save. Push Press Electric Mode Selection 3 forward to desired end point and press set to save. To set the Multi-Function knob to control STEERING % (DUAL-RATE): SET One Blink Red Three Blinks Green To reset max throw: Let go of controls and press SET. 1. Switch the transmitter on. 2. Press and hold MENU until the green LED lights. It will blink in single Press MENU **Reset End Points** Press SET to restore factory intervals. Press Four Blinks Red default end points. Nitro MENU 3. Press SET. The red LED will blink in single intervals to indicate Steering Two Blinks Red Sensitivity (Expo) has been selected. 4. Press MENU twice. The red LED will blink three times repeatedly to Model Locking Press Unlock **Press** Traxxas-Link indicate Steering % (Dual-Rate) has been selected. SET One Blink Green One Blink Red Four Blinks Green 5. Press SET to select. The green LED will blink 8 times fast to indicate successful selection. Lock 6. Press and hold MENU to return to driving mode. Two Blinks Red Press MENU **Restoring Factory Defaults:** Unlock All Three Blinks Red Transmitter Hold both Transmitter Release MENU and SET Press SET to clear settings. LED will turn red LED blinks solid green. Transmitter is restored to defaul MENU and SET ON Press Delete Model Confirm Deletion E-REVO • 35 One Blink Red Two Blinks Green *Torque Control is a feature designed only for use with the power system in the Traxxas Funny Car Race Replica (Model #6907)

Press

Enter Programming

MENU for 3 seconds

Multi-Function Knob

One Blink Green

Press and hold

Press MENU to move through options. Press SET to select an option.

One Blink Red

Two Blinks Red

Three Blinks Red

Braking %

Four Blinks Red

Throttle Trim

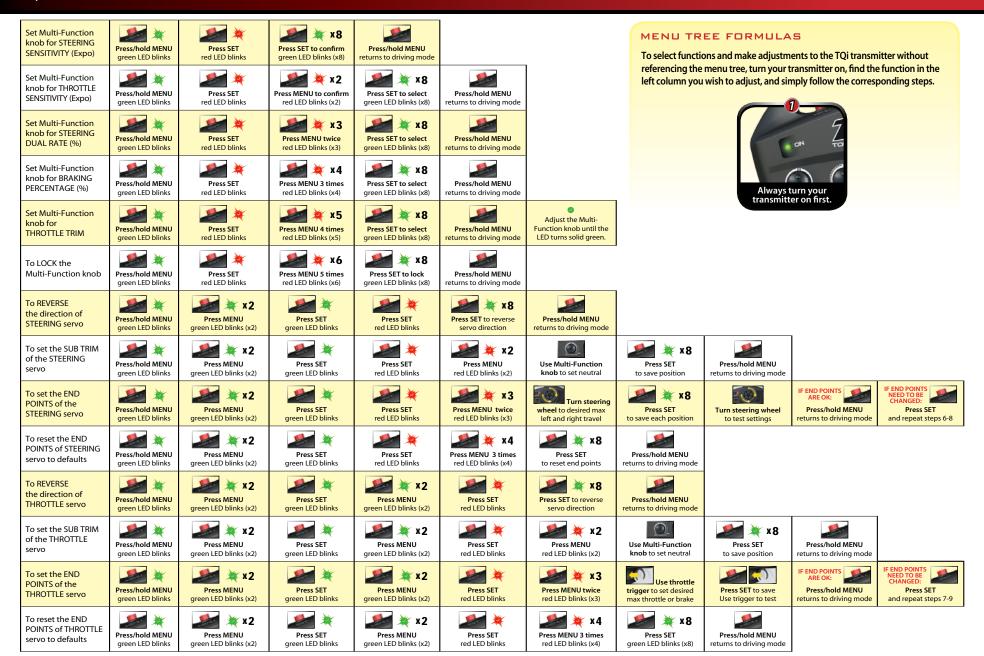
Five Blinks Red

Steering Sensitivity (Expo)

Throttle Sensitivity (Expo)

Steering % (Dual-Rate)

TQ: ADVANCED TUNING GUIDE



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

iPad mini

The powerful Traxxas Link App (available in the Apple App StoreSM or on Google PlayTM) 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.



iPhone 5S

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.

Home Drive Effects Help TSM ASSISTANCE % 42.8% STEERING SENSITIVITY 42.8% THROTTLE SENSITIVITY 0.0% STEERING % 100.0% BRAKING % 100.0% THROTTLE TRIM -8.7%

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



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

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.

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.



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

For more information about the Traxxas Link Wireless Module and the Traxxas Link application, visit Traxxas.com.

Link Wireless Module.







MODEL 56036-4



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