SAFETY PRECAUTIONS

Charging and handling precautions for all battery types:

• LiPo batteries have a minimum safe discharge voltage threshold that should not be exceeded. The electronic speed control is equipped with built-in Low-Voltage Detection that alerts the driver when LiPo batteries have reached their minimum voltage (discharge) threshold. It is the driver’s responsibility to stop immediately to prevent the battery pack from being discharged below its safe minimum threshold.

• Low-Voltage Detection is just one part of a comprehensive plan for safe LiPo battery use. It is critical to follow all instructions for safe and proper charging, use, and storage of LiPo batteries. Make sure you understand how to use your LiPo batteries. If you have questions about LiPo battery usage, please consult with your local hobby dealer or contact the battery manufacturer. As a reminder, all batteries should be recycled at the end of their useful life.

• ONLY use a Lithium Polymer (LiPo) balance charger with a balance adapter port to charge LiPo batteries. Never use NiMH or NiCad-type chargers or charge modes to charge LiPo batteries. DO NOT charge with a NiMH-only charger. The use of a NiMH or NiCad charger or charge mode will damage the batteries and may cause fire and personal injury.

• NEVER charge LiPo battery packs in series or parallel. Charging packs in series or parallel may result in improper charger cell recognition and an improper charging rate that may lead to overheating, cell imbalance, cell damage, and fire.

• ALWAYS inspect your LiPo batteries carefully before charging. Look for any loose leads or connectors, damaged wire insulation, damaged cell packaging, impact damage, fluid leaks, swelling (a sign of internal damage), cell deformation, missing labels, or any other damage or irregularity. If any of these conditions are observed, do not charge or use the battery pack. Follow the disposal instructions included with your battery to properly and safely dispose of the battery.

• DO NOT store or charge LiPo batteries with or around other batteries or battery packs of any type, including other LiPos.

• Store and transport your battery pack(s) in a cool dry place. DO NOT store in direct sunlight. DO NOT allow the storage temperature to exceed 140°F or 60°C, such as in the trunk of a car, or the cells may be damaged and create a fire risk.

• DO NOT disassemble LiPo batteries or cells.

• DO NOT attempt to build your own LiPo battery pack from loose cells.

Charging and handling precautions for all battery types:

• BEFORE you charge, ALWAYS confirm that the charger settings exactly match the type (chemistry), specification, and configuration of the battery to be charged.

• DO NOT attempt to charge non-rechargeable batteries (explosion hazard), batteries that have an internal charge circuit or a protection circuit, batteries that have been altered from original manufacturer configuration, or batteries that have missing or unreadable labels, preventing you from properly identifying the battery type and specifications.

• DO NOT exceed the maximum manufacturer recommended charge rate.

• DO NOT let any exposed battery contacts or wires touch each other. This will cause the battery to short circuit and create the risk of fire.

• While charging or discharging, ALWAYS place the battery (all types of batteries) in a fire retardant/fire proof container and on a non-flammable surface such as concrete.

• DO NOT charge batteries inside of an automobile. DO NOT charge batteries while driving in an automobile.

• NEVER charge batteries on wood, cloth, carpet, or on any other flammable material.

• ALWAYS charge batteries in a well-ventilated area.

• REMOVE flammable items and combustible materials from the charging area.

• DO NOT leave the charger and battery unattended while charging, discharging, or anytime the charger is ON with a battery connected. If there are any signs of a malfunction or in the event of an emergency, unplug the charger from the power source and disconnect the battery from the charger.

• DO NOT operate the charger in a cluttered space, or place objects on top of the charger or battery.

• If any battery or battery cell is damaged in any way, DO NOT charge, discharge, or use the battery.

• Keep a Class D fire extinguisher nearby in case of fire.

• DO NOT disassemble, crush, short circuit, or expose the batteries to flame or other source of ignition. Toxic materials could be released. If eye or skin contact occurs, flush with water.

• If a battery gets hot to the touch during the charging process (temperature greater than 110°F / 43°C), immediately disconnect the battery from the charger and discontinue charging.

• Allow the battery pack to cool off between runs (before charging).

• ALWAYS unplug the charger and disconnect the battery when not in use.

• ALWAYS unplug the battery from the electronic speed control when the model is not in use and when it is being stored or transported.

• DO NOT disassemble the charger.

• REMOVE the battery from your model or device before charging.

• DO NOT expose the charger to water or moisture.

• ALWAYS store battery packs safely out of the reach of children or pets. Children should always have adult supervision when charging and handling batteries.

• Nickel-Metal Hydride (NiMH) batteries must be recycled or disposed of properly.

• Always proceed with caution and use good common sense at all times.
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.

**Speed Control**

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

- **Disconnect the Battery:** Always disconnect the battery or batteries from the speed control when not in use.
- **Insulate the Wires:** Always insulate exposed wiring with heat shrink tubing to prevent short circuits.
- **Transmitter on First:** Switch on your transmitter first before switching on the speed control to prevent runaways and erratic performance.
- **Don’t Get Burned:** The ESC and motor can become extremely hot during use, so be careful not to touch them until they cool. Supply adequate airflow for cooling.
- **Use the Factory-Installed Connectors:** Do not change the battery and motor connectors. Improper wiring can cause fire or damage to the ESC. Please note that modified speed controls can be subject to a rewiring fee when returned for service.

- **No Reverse Voltage:** The ESC is not protected against reverse polarity voltage.
- **No Schottky Diodes:** External Schottky diodes are not compatible with reversing speed controls. Using a Schottky diode with your Traxxas speed control will damage the ESC and void the 30-day warranty.
- **Always** adhere to the minimum and maximum limitations of the speed control as stated in the specifications table in the Owner’s Manual. If your ESC operates on two batteries, do not mix battery types and capacities. Use the same voltage and capacity for both batteries. Using mismatched battery packs could damage the batteries and electronic speed control.

**Recycling Traxxas Power Cell NiMH Batteries**

Traxxas strongly encourages you to recycle Power Cell NiMH batteries when they reach the end of their useful life. Do not throw batteries in the trash. All Power Cell NiMH battery packs display the RBRC (Rechargeable Battery Recycling Corporation) icon, indicating they are recyclable. To find a recycling center near you, ask your local hobby dealer or visit www.call2recycle.org.
Thank you for purchasing the all-new Traxxas TRX-4 Sport unassembled kit. The design of the TRX-4 Sport instantly obsoletes the status quo with greatly expanded features and versatility. The game-changing portal axles provide greater ground clearance while the rigid steel frame eliminates chassis flex and allows you to navigate tough terrain. The new Canyon Trail 1.9 tires feature tuned foam inserts to deliver superior bite on rocky surfaces with convincing scale realism. In other words, we built it the Traxxas way — rugged, powerful, and ready to handle the rigors of remote locations and all-day driving fun!

This manual details the assembly of the TRX-4 Sport. This manual will also acquaint you with the model's many different components and its mechanical operation. Read through the manual and examine the model carefully before opening any of the parts bags included in the kit. If for some reason you think the model is not what you wanted, then do not continue any further. Your hobby dealer absolutely cannot accept a model for return or exchange which has been run or contains open bags.

If you have any questions about your TRX-4 Sport, call Traxxas’ technical support department at 1-888-TRAXXAS (1-888-872-9927) (U.S. residents only). Outside the U.S., call +1-972-549-3000). Technical support is available Monday through Friday, from 8:30am to 9:00pm central time. Technical assistance is also available at Traxxas.com/support or via e-mail at support@Traxxas.com.

Join thousands of registered members in our online community at Traxxas.com. Traxxas offers a full-service, on-site repair facility to handle any of your Traxxas service needs. Maintenance and replacement parts may be purchased directly from Traxxas by phone or online at Traxxas.com. You can save time, along with shipping and handling costs, by purchasing replacement parts from your local dealer. Do not hesitate to contact us with any of your product support needs. We want you to be thoroughly satisfied with your new model!

**ASSEMBLY HINTS**

To assemble this kit, you’ll need a large flat working area where you will have plenty of room to build. Be sure it’s a place where you can leave your work spread out and not in the way when you want to take a break from the assembly. Allow yourself plenty of time to build this kit; assembly time is going to vary with each individual. Experienced builders may only need 4-5 hours to assemble this kit, while others may spend an entire weekend on it. You should feel comfortable with taking as much time as needed to properly build and set up your model.

If you’ve been exploring the contents of your kit box, you’ve noticed many bags of small parts. Open only one bag at a time. To keep the parts organized, use small paper plates or several large plastic plates with partitions to contain the parts. Label the paper plates, and then pour the contents of the bags onto them. This puts the parts out in the open where you can find them easily. The plates also prevent small parts from rolling off the table.

Please read the text next to each diagram. The text contains important information, such as assembly steps, screw sizes, and part numbers. Also, pay attention to any notes that may follow some steps. Before you attempt to run your newly-built model, please read all of the instructions and precautions included in the Owner’s Manual. You can download the Owner’s Manual for the TRX-4 Sport, as well as the manuals for all Traxxas vehicles, at Traxxas.com.

Remember, as you assemble your Traxxas model, you are not alone. If you have any questions or run into difficulties, call Traxxas’ technical support department at 1-888-TRAXXAS (1-888-872-9927) (U.S. residents only). Outside the U.S., call +1-972-549-3000). Technical support is available Monday through Friday, from 8:30am to 9:00pm central time.

**ITEMS YOU WILL NEED**

Some of the tools that you may need in the maintenance and repair of your model have been provided. These include:

- 2.0mm “T” wrench
- 2.5mm “L” wrench
- 4-way wrench
- High Performance Grease
- Silicone shock oil

**Required but not included:**

- Radio system with transmitter, receiver, and servo
- Power system with motor and speed control
- Traxxas Ultra Premium Tire Glue (CA glue) (part #6468)
- 4 AA alkaline batteries
- NiMH battery pack or LiPo battery pack
- NiMH/LiPo battery charger
- Safety glasses
- Needle nose pliers

The following items are not required for the operation of your model, but are a good idea to include in any RC toolbox:

- Metric hex driver set (part #3415)
- Hobby knife
- Side cutters

These items can be purchased from your hobby dealer.
SELECTING A CHARGER AND BATTERIES FOR YOUR MODEL
Your model does not include a battery or charger. Traxxas Power Cell iD batteries are strongly recommended for maximum performance and safer charging. The following chart lists available Power Cell batteries for your model:

<table>
<thead>
<tr>
<th>LiPo Batteries with iD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2849X 4000mAh 11.1V 3-Cell 25C LiPo Battery</td>
</tr>
<tr>
<td>2872X 5000mAh 11.1V 3-Cell 25C LiPo Battery</td>
</tr>
<tr>
<td>2843X 5800mAh 7.4V 2-Cell 25C LiPo Battery</td>
</tr>
<tr>
<td>2869X 7600mAh 7.4V 2-Cell 25C LiPo Battery</td>
</tr>
</tbody>
</table>

NiMH Batteries with iD

<table>
<thead>
<tr>
<th>NiMH Batteries with iD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2923X Battery, Power Cell, 3000mAh (NiMH, 7-C flat, 8.4V)</td>
</tr>
<tr>
<td>2940X Battery, Series 3 Power Cell, 3300mAh (NiMH, 7-C flat, 8.4V)</td>
</tr>
<tr>
<td>2950X Battery, Series 4 Power Cell, 4200mAh (NiMH, 7-C flat, 8.4V)</td>
</tr>
<tr>
<td>2960X Battery, Series 5 Power Cell, 5000mAh (NiMH, 7-C flat, 8.4V)</td>
</tr>
</tbody>
</table>

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

**WARNING: FIRE HAZARD!** Users of Lithium Polymer (LiPo) batteries must read the Warnings and Precautions beginning on page 2. You MUST use a LiPo charger for LiPo batteries or battery damage with the potential for fire will result.

<table>
<thead>
<tr>
<th>Charger</th>
<th>Part No.</th>
<th>NiMH Compatible</th>
<th>LiPo Compatible</th>
<th>Battery iD</th>
<th>Max. Cells</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZ-Peak Plus, 4 amps</td>
<td>2970</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>3s</td>
</tr>
<tr>
<td>EZ-Peak Live, 12 amps</td>
<td>2971</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>4s</td>
</tr>
<tr>
<td>EZ-Peak Dual, 8 amps</td>
<td>2972</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>3s</td>
</tr>
<tr>
<td>EZ-Peak Live Dual, 26+amps</td>
<td>2973</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>4s</td>
</tr>
</tbody>
</table>

SELECTING A RADIO SYSTEM FOR YOUR MODEL
Your model does not include a transmitter, receiver, or servo. Traxxas TQi radio systems are recommended for best performance. The following chart lists available choices for your model:

**Radio Systems**

<table>
<thead>
<tr>
<th>Radio Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>6507R</td>
</tr>
<tr>
<td>6509R</td>
</tr>
<tr>
<td>6516</td>
</tr>
<tr>
<td>6519</td>
</tr>
</tbody>
</table>

**Servos**

<table>
<thead>
<tr>
<th>Servos</th>
</tr>
</thead>
<tbody>
<tr>
<td>2075X</td>
</tr>
<tr>
<td>2075R</td>
</tr>
<tr>
<td>2250*</td>
</tr>
<tr>
<td>2255*</td>
</tr>
</tbody>
</table>

* 2262 BEC kit is required for 2250 & 2255

**WARRANTY STATEMENT**

Every effort has been made in component design and material selection to make your model as durable as possible and still maintain a weight consistent with good handling. Because this model is intended for operation under severe conditions, no warranties are expressed nor implied relating to the longevity of the parts. If you find that a part has a defect in materials or workmanship, please return it to us BEFORE IT IS USED, and we will gladly replace it. Damage caused by excessive force, abuse, neglect or failure to adhere to the precautions outlined in the literature contained with your model will void the warranty.

**INTRODUCTION**

- **LiPo Batteries with iD**
  - 2849X: 4000mAh 11.1V 3-Cell 25C LiPo Battery
  - 2872X: 5000mAh 11.1V 3-Cell 25C LiPo Battery
  - 2843X: 5800mAh 7.4V 2-Cell 25C LiPo Battery
  - 2869X: 7600mAh 7.4V 2-Cell 25C LiPo Battery

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

- **Electronic Speed Controls**
  - 3025: XL-5HV 3s Electronic Speed Control, waterproof (low-voltage detection, fwd/rev/brake)

- **Motors**
  - 3975R: Motor, Titan 550, reverse rotation (21-turns/14 volts)
**HARDWARE DESCRIPTIONS**

The following chart is provided to help you identify the many different sizes and types of hardware that are used in the assembly of this model. Note the difference between the length measurements of the roundhead and countersunk screws. A ruler is provided at the bottom of each page to measure the length of the screws in millimeters.

<table>
<thead>
<tr>
<th>Hardware Type</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>3x12mm Countersunk Screw</td>
<td>3x12mm Buttonhead Screw</td>
</tr>
<tr>
<td>5x10x4mm Ball Bearing</td>
<td></td>
</tr>
</tbody>
</table>

**ICON DESCRIPTIONS**

There are icons in these assembly instructions that indicate certain actions needed during assembly.

- **Grease Tube**: Apply included grease to part indicated. *White: Silicone, Dark: High Performance*
- **Turn Icon**: Indicates assembly needs to be flipped or turned around.
- **Oil Bottle**: Use included silicone shock oil.
- **Repeat Icon**: Repeat step the number of times indicated.
- **Optional Part Icon**: Optional part available. Refer to included parts list.
- **Aluminum Part Icon**: Aluminum accessory part available. Refer to included parts list.
A. TRANSMISSION ASSEMBLY

**TRANSMISSION BAG**
- Transmission Case Halves (2)
- 5x11x4mm BB (5)

**A1. Insert 5x11x4mm bearings into transmission case halves**

Note: Bearing Seating
Press down hard to ensure bearings are fully seated.

**TRANSMISSION BAG**
- Input Shaft
- Output Shaft
- 18T Input Gear
- Single Speed Gear
- Short Input Spacer
- Long Output Spacer
- 2x9.8 Pin (2)

**A2. Assemble input shaft and output shaft**

Apply drop of grease

**TOOLS BAG**
- High Performance Grease
A. TRANSMISSION ASSEMBLY

A3. Install input and output assemblies into main transmission housing

1. Place assemblies into transmission case halves

2. Secure transmission case halves together

TRANSMISSION BAG

2.5x8mm CS (5)
Shift Shaft Plug

A4. Install bearings into the transfer case

Transfer Case Cover
5x11x4mm BB (5)

Note: Bearing Seating
Press down hard to ensure bearings are fully seated.
A. TRANSMISSION ASSEMBLY

**A5. Assemble and install transfer case gears**

1. **27T transfer case gear assembly**
   - Apply drop of grease
   - Insert pin
   - Apply drop of grease

2. **Short output shaft assembly**
   - 5x8x0.5mm PTFE Washer
   - Apply drop of grease
   - 5x8x0.5mm PTFE Washer

3. **Long output shaft assembly**
   - 5x8x0.5mm PTFE Washer
   - 5x8x0.5mm PTFE Washer

**A6. Assemble transfer case**

- Transfer Case Cover
- 2.5x8mm CS (3)

Once assembled, turn input shaft. The gears should spin freely with no binding.
A. TRANSMISSION ASSEMBLY

TRANSMISSION BAG

- 39T Spur Gear
- Locknut
- 4x8 Metal Washer
- Spring Washer
- Slipper Plate
- Slipper Friction Material

Option Part
8249 Slipper Eliminator

A7. Install slipper clutch and spur gear

To tighten the slipper nut, insert the 2.0mm hex wrench into the hole in the end of the input shaft. This locks the shaft for adjustments. Turn the adjustment nut until all four spring washers are flat; then, tighten the nut an additional 1/16 turn (or until the slipper clutch does not allow the spur gear to slip during normal operation).

Completed transmission assembly
B. REAR AXLE ASSEMBLY

**SPOOL BAG**

- **B1. Assemble differential spool**
  - Assemble differential spool
  - 2.5x8mm BCS (4)
  - 10x15x4mm BB
  - 7x14x5mm BB

**ACCESSORY**

- Option Part
  - 8195 Locking Diff Kit
- Option Part
  - 8287 Overdrive Ring Gear
  - 8288 Underdrive Ring Gear
  - 8279R Machined Ring Gear

**REAR AXLE BAG**

- **B2. Install differential plug**
  - Install differential plug
  - 3mm E-Clip
  - Differential Plug

1. **3mm E-Clip**
   - Use needle nose pliers to set E-clip between plug and axle housing.
2. **Differential Plug**
   - Use needle nose pliers to press E-clip onto plug.
B. REAR AXLE ASSEMBLY

B3. Insert bearings and pinion gear into axle housing

- Apply drop of grease
- 6x13x5mm BB
- 5x11x4mm BB
- 11T Pinion Gear

B4. Install differential housing cover

- 2.5x16mm CS (4)

ACCESSORY

- Option Part
  8280 Gray
  Differential Cover
- Option Part
  8280X Chrome
  Differential Cover

REAR AXLE BAG

- Rear Axle Housing
- Spool Assembly
- 11T Pinion Gear
- 5x11x4mm BB
- 6x13x5mm BB

TOOLS BAG

- High Performance Grease

REAR AXLE BAG

- Differential Housing Cover
- 2.5x16mm CS (4)
B. REAR AXLE ASSEMBLY

REAR AXLE BAG
Axle Portal Mounts (2)
2.5x10mm CCS (6)

2.5x10mm CCS

B5. Install axle portal mounts to axle housing

REAR AXLE BAG
Inner Rear Portal Housing
Outer Rear Portal Housing
4x10x4mm BB
6x12x4mm BB
6x13x5mm BB

4x10mm BB

B6. Insert bearings into portal housings

6x12x4mm BB
Note Orientation

4x10x4mm BB
6x13x5mm BB

Note Orientation

6x13x5mm BB

Note Orientation

Accessory
Aluminum Accessory
Portal Axle Adapter

x2
**B. REAR AXLE ASSEMBLY**

**REAR AXLE BAG**
- 2x12mm Pin
- 10x15x4mm BB

**TOOLS BAG**
- High Performance Grease

**ACCESSORY**
- Option Part 8065 Machined Input Gear
- Option Part 8063 Heavy Duty Axle
- Aluminum Accessory Aluminum Portal Housings

---

**B7. Assemble and install portal input and output gears**

- Portal output gear assembly
- 2x12mm Pin
- Apply drop of grease

---

**B8. Assemble portal housings**

- Portal input gear assembly
- 10x15x4mm BB
- Apply drop of grease

---

**REAR AXLE BAG**
- 2.5x10mm CS (8)

**Tools**
- High Performance Grease
B. REAR AXLE ASSEMBLY

REAR AXLE BAG

B9. Install axle driveshafts

- 2.5x16mm CS (4)
- Left Axle Driveshaft
- Right Axle Driveshaft

B10. Install link mounts and 12mm wheel hexes

- Left Link Mount
- Right Link Mount
- 2.5x10mm CS (4)
- 3x10mm Screw Pin (2)
- 12mm Wheel Hex (2)

ACCESSORY

- Option Part 8061 Heavy Duty Rear Axles

- Aluminum Accessory
  - Aluminum Wheel Hex

Note: Orientation, Threads
Check your assembly carefully.

Completed rear axle assembly

Straight on view
C. FRONT AXLE ASSEMBLY

C1. Assemble differential spool

1. Assemble differential spool

- Ring Gear
- Differential Spool
- 7x14x5mm BB
- 10x15x4mm BB
- 2.5x8mm BCS
- 10x15x4mm BB

Tighten screws in a cross pattern

Completed spool

C2. Install differential plug

1. Install differential plug

- 3mm E-Clip
- Differential Plug

2. Use needle nose pliers to set E-clip between plug and axle housing.

3. Use needle nose pliers to press E-clip onto plug.

ACCESSORY

- Option Part 8195 Locking Diff Kit
- Option Part 8287 Overdrive Ring Gear
- 8288 Underdrive Ring Gear
- 8279R Machined Ring Gear

FRONT AXLE BAG

- 3mm E-Clip
- Differential Plug
C. FRONT AXLE ASSEMBLY

**FRONT AXLE BAG**
- Front Axle Housing
- Spool Assembly
- 11T Pinion Gear
- 5x11x4mm BB
- 6x13x5mm BB

**TOOLS BAG**
- High Performance Grease

**C3. Insert bearings and pinion gear into axle housing**

**FRONT AXLE BAG**

- 6x13x5mm BB
- 5x11x4mm BB
- 11T Pinion Gear

**TOOLS BAG**

- Apply drop of grease

**C4. Install differential housing cover**

**REAR AXLE BAG**

- Differential Housing Cover
- 2.5x16mm CS (4)

**ACCESSORY**

- Option Part
  - 8280 Gray
  - Differential Cover
- Option Part
  - 8280X Chrome
  - Differential Cover

- 2.5x16mm CS

- 2.5x16mm CS
C. FRONT AXLE ASSEMBLY

**FRONT AXLE BAG**

Left Caster Block
Right Caster Block
2.5x10mm CCS (6)

**ACCESSORY**

Aluminum Accessory
Caster Blocks

---

**C5. Install caster blocks onto axle housing**

2.5x10 CCS

Note Orientation

---

**FRONT AXLE BAG**

Inner Front Portal Housing
Outer Front Portal Housing

4x10x4mm BB
6x12x4mm BB
6x13x5mm BB

**C6. Insert bearings into portal housings**

4x10mm BB
6x12x4mm BB
6x13x5mm BB

x2

---

Note Orientation
C. FRONT AXLE ASSEMBLY

FRONT AXLE BAG
- Front Left Driveshaft
- Front Right Driveshaft
- 2.5x4mm BCS (3)
- 2.5x10mm CS (8)
- 2x12mm Pin (2)
- CV Crosspin
- 12x18x4mm BB

TOOLS BAG
- High Performance Grease

ACCESSORY
- Option Part
  8064 Machined Input Gear
- Option Part
  8060 Heavy Duty Axle
- Aluminum Accessory
  Aluminum Portal Housings

C7. Assemble and install portal input and output gears

1. Portal output gear assembly
   - Portal Output Gear
   - Portal Stub Axle
   - 2x12mm Pin
   - Apply drop of grease
   - Note Orientation!

2. Portal input gear assembly
   - Portal Input Gear (Front)
   - CV Crosspin
   - 2x12mm Pin
   - 12x18x4mm BB
   - Left Driveshaft (Short)
   - Right Driveshaft (Long)

Assemble portal housings
- 2.5x10mm CS

Assembled
C. FRONT AXLE ASSEMBLY

C8. Install portal/driveshaft assemblies to axle

- 3x12mm BCS (4)
- Left Link Mount
- Right Link Mount
- 3x10mm Screw Pin (2)
- 2.5x10mm CS (4)
- Right Axle Driveshaft (Long)
- Left Axle Driveshaft (Short)
- Portal Assembly
- Kingpin Bushing (4)
- 12mm Wheel Hex (2)

C9. Install link mounts and 12mm wheel hexes

- 3x10mm Screw Pin
- 12mm Wheel Hex
- Note Orientation
- 2.5x10mm CS (4)
- Left Axle Driveshaft (Short)
- Right Axle Driveshaft (Long)
- Portal Assembly
- Kingpin Bushing

ACCESSORY

- Aluminum Accessory
- Aluminum Wheel Hex
Check your assembly carefully.

Completed front axle assembly

Straight on view
**D. CHASSIS ASSEMBLY**

**CHASSIS PLASTICS BAG**

- Right Chassis Rail
- Steering Servo Mount
- Front Bumper Mount Crossmember
- Right Front Shock Tower
- 3x10mm BCS (2)
- 3x12mm BCS (2)

**D1. Assemble front bumper mount crossmember, steering servo mount, and shock tower to right chassis rail**

**CHASSIS PLASTICS BAG**

- Right Chassis Floor Pan
- Front Right Wire Clip
- 3x12mm BCS

**D2. Assemble right floor pan and right front wire clip to right chassis rail**
D. CHASSIS ASSEMBLY

**CHASSIS PLASTICS BAG**

- Lower Gear Cover
- Center Skidplate
- Rear Right Wire Clip
- 3x10mm BCS (2)
- 3x12mm BCS

**D3. Assemble front lower gear cover and center skidplate to chassis rail**

1. Lower Gear Cover
2. Center Skidplate
3. Lower Gear Cover

**CHASSIS PLASTICS BAG**

- Right Rear Shock Tower
- Damper Crossmember
- Rear Bumper Crossmember
- 3x10mm BCS (4)
- 3x12mm BCS

**D4. Assemble rear shock tower, damper crossmember, and rear bumper crossmember to right chassis rail**

- 3x10mm BCS
- 3x12mm BCS
- Right Rear Shock Tower
- Damper Crossmember
D. CHASSIS ASSEMBLY

D5. Assemble left chassis rail and left front shock tower to right chassis rail assembly

CHASSIS PLASTICS BAG

- Left Chassis Rail
- Left Front Shock Tower
- Front Battery Plate
- 3x10mm BCS (2)
- 3x12mm BCS (2)

D6. Assemble left floor pan, left rear and left front wire clip to left chassis rail

CHASSIS PLASTICS BAG

- Left Chassis Floor Pan
- Rear Left Wire Clip
- Front Left Wire Clip
- 3x10mm BCS (2)
- 3x12mm BCS (2)
D. CHASSIS ASSEMBLY

CHASSIS PLASTICS BAG

D7. Assemble left rear shock tower to right chassis rail assembly

Completed chassis assembly

Check your assembly carefully.
E. ELECTRONICS INSTALLATION

**E1. Install transmission assembly into chassis assembly**

- Chassis Assembly
- Transmission Assembly
- 3x10mm BCS (3)

**E2. Install motor into chassis assembly**

1. **Motor sold separately**
   - Upper Gear Cover
   - Motor Mount Plate
   - 17T Pinion Gear
   - 3x8mm CS (2)
   - 3x4 GS
   - 3x8mm BCS (3)

**ACCESSORY**

Option Part

3975R Titan 550 Motor

**Screw Positions**

<table>
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<td>22</td>
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</table>

**Mesh gear teeth; then tighten set screw**

**Pinion gear should be 1-1.5mm from end of motor shaft**

**Upper Gear Cover**

- 3x8mm BCS
E. ELECTRONICS INSTALLATION

**E3. Install lower receiver box onto chassis assembly**

Receiver (sold separately)  
Receiver box dimensions: 56mm x 26mm x 20mm

**ACCESSORY**

Option Part  
6519 TQi 2.4GHz  
3Ch Micro Receiver

Option Part  
6533 TQi 2.4GHz  
5Ch Micro Receiver

**E4. Install steering servo onto chassis assembly**

Steering servo sold separately

**ACCESSORY**

Option Part  
2075X  
High-Torque Servo

2075R  
High-Speed Servo

2250 Coreless Servo*  
2255 Brushless Servo*

*2262 BEC kit is required for 2250 & 2255

**E5. Install ESC onto chassis assembly**

Electronic speed control sold separately

**ACCESSORY**

Option Part  
3025 XL-5HV  
Electronic Speed Control

---

E. ELECTRONICS INSTALLATION

**ELECTRONICS BAG**

Lower Receiver Box  
Receiver Foam Tape  
3x6mm BCS (2)

**ELECTRONICS BAG**

3x10mm FCS (4)

**ELECTRONICS BAG**

3x12mm BCS (2)

**ELECTRONICS BAG**

3x6mm BCS
E. ELECTRONICS INSTALLATION

**ELECTRONICS BAG**
- Receiver Box Foam Seal
- Antenna Tube
- Antenna Cap
- 3x4mm GS

**E7. Install antenna from receiver on right floor pan**
- Antenna Cap
- 2 x 3x4mm GS

**E6. Install receiver bottom foam**

**E8. Install wires into receiver box**
- Zip Tie (2)

- Correct wire routing
- Bundle excess wires in receiver box

**Traxxas Radio Systems:**
- CH1 - Steering Servo
- CH2 - Electronic Speed Control

**Caution! Pinch point for wires.**

Receiver sold separately.
E9. Waterproof and seal the receiver box

1. Apply small bead of grease

2. Receiver Clamp Foam Seal

E10. Assemble and install battery tray

1. Battery Hold-down
   Battery Clip
   Pivot Post
   Screw Pin
   Battery Tray
   3x10mm CCS (2)

2. 3x10mm BCS
   3x12mm BCS
   Pivot Post Screw
   Battery Hold-down Screw Pin
   3x10mm CCS (2)
E. ELECTRONICS INSTALLATION

**E11. Center the steering servo**

1. **Transmitter, ESC, and Battery sold separately**
   - Turn transmitter on (see transmitter instructions)

2. **Plug battery into ESC** (see ESC instructions)

3. **Turn on the model** (see ESC instructions)

4. **Set Steering Trim to Zero** (see transmitter instructions)

5. **Unplug battery and turn transmitter off**

---

**E12. Install servo horn on steering servo**

- **Servo sold separately**

- **3x6mm BCS**

- **Steering Servo Horn**

- **Note orientation - Servo horn will face straight ahead**

---

**Completed assembly**

*Check your assembly carefully.*

---

**ELECTRONICS BAG**

- **Steering Servo Horn**
  - 3x6mm BCS
F. SUSPENSION & DRIVELINE INSTALLATION

DAMPER BAG

Shock Assemblies
Silicone Shock Oil
Front Shock Springs (white stripe)
Rear Shock Springs (orange stripe)
Upper Spring Retainers
Lower Spring Retainers

Option Part Part
8140 Long Arm Lift Kit
8140R Long Arm Lift Kit
8140X Long Arm Lift Kit

Option Part
8042 Springs (0.22)
8043 Springs (0.30)
8044 Springs (0.39)
8045 Springs (0.61)

Aluminum Accessory
8260A Shocks (blue-anodized)
8260G Shocks (green-anodized)
8260R Shocks (red-anodized)
8260X Shocks (hard-anodized)

F1. Assemble GTS shocks

1. Unscrew cap
2. Fill with shock oil
3. Slowly move piston to remove excess air
4. Add oil to reach the proper level
5. Note: Shaft should be fully compressed when cap is installed.

Suggested Spring Preload Settings (May require fine tuning when body installed)

Exercise shock to make sure it compresses fully. If it does not, it is overfilled.

GTS Shock Exploded View

Upper Spring Retainer
Note: Install upper spring retainer before shock cap

Shock Spring

Lower Spring Retainer

Shock Cap

Left Front Shock Assembled
Right Front Shock Assembled
Left Rear Shock Assembled
Right Rear Shock Assembled

Note: Shaft should be fully compressed when cap is installed.
F2. Install steering link to portal housings

F3. Attach front shocks and front lower suspension links to front axle assembly

**FRONT AXLE BAG**
3x15mm BCS

**SUSPENSION LINK BAG**
Drag Link

**ACCESSORY**
Option Part
8274 Hollow Ball Set

**ACCESSORY**
Option Part
8140 Long Arm Lift Kit
8140R Long Arm Lift Kit
8140X Long Arm Lift Kit

Option Part
8274 Hollow Ball Set
F. SUSPENSION & DRIVELINE INSTALLATION

**SUSPENSION LINK BAG**

- 3x15mm BCS (2)
- 3x23mm BCS
- Steering Link
- Front Panhard Bar
- Front Upper Suspension Link

**F4. Attach steering link, front panhard bar and front upper suspension link to front axle assembly**

- Steering Link
- Front Panhard Bar
- Front Upper Suspension Link

- 3x15mm BCS
- 3x23mm BCS

**Dimensions**

- **Front Panhard Bar**
  - Length: 77.61mm
  - Width: 37.61mm

- **Front Upper Link**
  - Length: 80.39mm
  - Width: 37.61mm

- **Steering Link**
  - Length: 77.28mm
  - Width: 34.50mm
F. SUSPENSION LINK BAG

Attach front axle assembly to chassis assembly

3x15mm BCS (4)
3x23mm BCS (3)

F5. SUSPENSION & DRIVELINE INSTALLATION

Install panhard bar to chassis and steering link to steering servo

3x15mm BCS (Steering Link)
3x15mm BCS (Front Panhard Bar)

Install upper and lower suspension links to chassis

3x15mm BCS (Front Lower Link)
3x15mm BCS (Front Upper Link)
3x23mm BCS (Front Shock)
3x23mm BCS (Front Panhard Bar)

Install front shocks to shock towers from top of chassis

3x23mm BCS (Front Shock)
F6. Attach rear shocks and rear suspension links to rear axle assembly

- 3x27mm BCS (2)
- 3x30mm BCS
- Rear Upper Suspension Links
- Rear Lower Suspension Links

**Option Part**
- 8274 Hollow Ball Set
- 8140 Long Arm Lift Kit
- 8140R Long Arm Lift Kit
- 8140X Long Arm Lift Kit
F. SUSPENSION & DRIVELINE INSTALLATION

SUSPENSION LINK BAG

F7. Attach rear axle assembly to chassis assembly

3x15mm BCS (2)
3x23mm BCS (2)
3x27mm BCS (2)

Install upper and lower suspension links to chassis

Install rear shocks to shock towers from top of chassis

3x15mm BCS (Rear Lower Link)
3x27mm BCS (Rear Upper Link)
3x23mm BCS (Rear Shock)

3x15mm BCS (Rear Lower Link)
3x25mm BCS (Rear Upper Link)
3x15mm BCS (Rear Lower Link)
3x15mm BCS (Rear Lower Link)
F. SUSPENSION & DRIVELINE INSTALLATION

F8. Assemble front and rear driveshafts

**DRIVELINE BAG**

- 3x6mm BCS (4)
- CV Cross Pin (4)
- Stock Pin (4)
- CV Cup (4)
- CV Ball (4)
- Short Female Half Shafts (3)
- Long Female Half Shaft
- Male Half Shafts (2)
- CV Pin Retainer (4)

**Short half shaft assembly**

- CV Ball
- Short Female Half Shaft
- CV Cross Pin
- 3x6mm BCS

**Long half shaft assembly**

- CV Ball
- Long Female Half Shaft
- CV Cross Pin
- 3x6mm BCS

**Front driveshaft**

- Stock Pin
- CV Pin Retainer
- CV Cup
- Short Half Shaft Assembly
- Male Half Shaft
- Stock Pin
- CV Pin Retainer
- CV Cup
- Short Half Shaft Assembly

**Ensure stock pins are installed parallel to each other.**

**Rear driveshaft**

- Stock Pin
- CV Pin Retainer
- CV Cup
- Short Half Shaft Assembly
- Male Half Shaft
- Stock Pin
- CV Pin Retainer
- CV Cup
- Short Half Shaft Assembly

**Ensure stock pins are installed parallel to each other.**
F9. Install front and rear driveshafts

3x10mm Screw Pin (4)

Front driveshaft installation

Rear driveshaft installation

Completed suspension & driveline installation

Check your assembly carefully.
**G. FINAL CHASSIS ASSEMBLY**

**G1. Assemble wheels and tires; install on front and rear axles**

- **Wheels (4)**
- **Tires with Foam Inserts (4)**

Glue the tires to the wheels. Use your thumb to push the side of the tire away from the wheel. Repeat at four points around the wheel. Turn the wheel over and repeat on the inside of the wheel.

**G2. Install body post crossmembers on chassis**

- **3x20mm BCS (4)**
- **3x8mm BCS**

Body Post Crossmember (2)

Note rotation direction arrow when installing.
**G. FINAL CHASSIS ASSEMBLY**

**BODY ACCESSORIES BAG**

- **G3. Install front and rear body mounts**
  - Front Body Mount
  - Rear Body Mount
  - 2.5x18mm Screw Pin (4)

**BODY ACCESSORIES BAG**

- **G4. Assemble and install front and rear bumpers**
  - Front Bumper
  - Rear Bumper
  - Winch
  - Bumper D-ring (4)
  - 2x12mm CS (4)
  - 2.6x8mm BCS
  - 4x5mm Yoke Pin (4)
  - 3x10mm BCS (4)

**ACCESSORY**

- Option Part
  - Bumper options available. See parts list.

- Option Part
  - 8021 Spare Tire Mount

---

**Front bumper assembly**

- Winch
- 2.6x8mm BCS
- 3x10mm BCS
- 2x12mm CS
- Bumper D-Rings

**Rear bumper assembly**

- 3x10mm BCS
- 2x12mm CS
- Bumper D-Rings

---

**Front bumper mount location**

- Second mounting hole

**Rear bumper mount location**

- Second mounting hole

---

**Point arrow to front of model.**

**Point arrow to front of model.**

**Front body mount location**

- Second from top

**Rear body mount location**

- Top position
G. FINAL CHASSIS ASSEMBLY

BODY ACCESSORIES BAG

3x10mm BCS (8)

Rock Sliders (2)

G5. Attach rock sliders to left and right floor pans

Chassis assembly complete

Note Orientation: Shorter ends towards front
H. BODY ASSEMBLY

Buying Paint
The body supplied with your model is molded from lightweight and durable clear polycarbonate. It should be painted on the underside so that the color will not be scratched off while running. The best way to paint the body is by using thinned paints sprayed through an airbrush or spray gun. If you do not have these tools, the next best way is using spray can paints. Whatever paint you use, be sure that it is made for painting Lexan® or polycarbonate. Other types of paints and solvents can attack the body material and cause it to appear foggy.

Preparing the Body
The body must be washed thoroughly with dish soap and water to remove any grease or oil (i.e., fingerprints), which may keep the paint from adhering to it. Dry the body completely with a soft, lint-free cloth. Use the supplied masks to mask the windows. Mask off any stripes or custom effects with either masking tape or special tape made for striping. This special tape is available from automotive paint supply stores and will provide sharper edges than masking tape. For easy, custom-colored striping, automotive pin-stripping tape can be applied to the inside of the body and painted over. Be sure that all of your tape and masks are fully pressed down (burnished) so that the paint will not run or bleed underneath. Usually, the darker colors are painted first, followed by the lighter colors. If your paint scheme would be easier to mask by covering the dark areas and spraying them last, be sure the lighter colors are opaque enough to prevent the darker color from showing through. Lighter colors can be backed with silver to help make them opaque.

Spraying the Body
Read the directions on your bottle or can of paint and shake, mix, or thin the paint, as required. It is very important to avoid breathing the paint vapors, as they are extremely harmful. Spray the paint outdoors in well-ventilated areas only. Apply the paint to the body sparingly and in light coats. Be patient! Let the paint dry fully in between coats. This will prevent accidentally smearing wet paint. Take extra care when masks are being removed. After the body is completely painted, remove the peel coat from the outside of the body.

Decals
You are now ready to apply the decals. The decals have been die-cut for your convenience. Test the position of the decals before applying them to the body. Once the decals have been applied, they cannot be removed without damaging them. You can spray the body with window cleaner before applying the decals. This will allow you to re-position them. Once positioned, squeegee the cleaner from under the decal. The decal will adhere when it dries. If you have air bubbles in the decals, puncture the center of each bubble with a sharp pin and push the air out. If you have creases along the outer edges of a decal (especially when applied to curved surfaces), use a hobby knife to cut along the top of the crease and overlap the edges.

Body Accessories Bag

H1. Assemble and install snorkel and right mirror

Body Snorkel
Body Snorkel Side
Body Snorkel Retainer
Right Side Mirror
2.6x8mm BCS (self-tapping) (3)
2.6x12mm BCS (self-tapping) (1)
O-ring (2)
Mounting Clip (2)
H. BODY ASSEMBLY

BODY ACCESSORIES BAG

**Front grill assembly**
- Front Grill
- Headlight Clamps (L&R)
- Front Grill Retainer
- 2.5X8mm BCS (6)

**Left mirror assembly**
- Left Side Mirror
- O-ring (2)
- Mounting Clip (2)

**Rear tailgate assembly**
- Rear Tailgate
- Rear Tail Light Clamps (L&R)
- Rear Tailgate Retainer
- 2.5X8mm BCS (4)

---

**H2. Assemble and install grill, left mirror, and tailgate**

**Front grill assembly**
- Front Grill
- Rear Tailgate
- Headlight Clamps (L&R)
- Front Grill Retainer
- 2.5X8mm BCS (6)

**Left mirror assembly**
- Left Side Mirror
- O-ring (2)
- Mounting Clip (2)

**Rear tailgate assembly**
- Rear Tailgate
- Rear Tail Light Clamps (L&R)
- Rear Tailgate Retainer
- 2.5X8mm BCS (4)
H. BODY ASSEMBLY

**H3. Assemble accessories to left expedition rack**

- Left Expedition Rack
  - Fuel Tank (L&R)
  - Fire Extinguisher, Axe & Shovel
  - Accessory Mount
  - Accessory Mount Cover
- 3x8mm FCS (2)
- 3x10mm BCS (2)
- 3x8mm BCS
- 3x15mm BCS

**H4. Assemble accessories to right expedition rack**

- Right Expedition Rack
  - Traction Boards (2)
  - Jack
  - 3x12mm BCS (2)
  - 2x8mm BCS

**H5. Assemble expedition rack**

- Expedition Rack Tube
- Expedition Rack Top
- Left Expedition Rack Assembly
- Right Expedition Rack Assembly
- 2.5x10mm CS (12)
H. BODY ASSEMBLY

BODY ACCESSORIES BAG

- Expedition Rack Assembly
- Tailgate Cap
- Tailgate Cap Retainer
- Expedition Rack Retainer (L&R)
- 3x8mm FCS (4)
- 3x10mm FCS (4)

H.6. Install expedition rack and tailgate cap

- Expedition Rack Assembly
- Tailgate Cap Retainer (L)
- 3x8mm FCS
- 3x10mm FCS
- Expedition Rack Retainer (R)
- 3x8mm FCS
- 3x10mm FCS
- Expedition Rack Retainer (L)
- 3x8mm FCS
- 3x10mm FCS

Completed body assembly