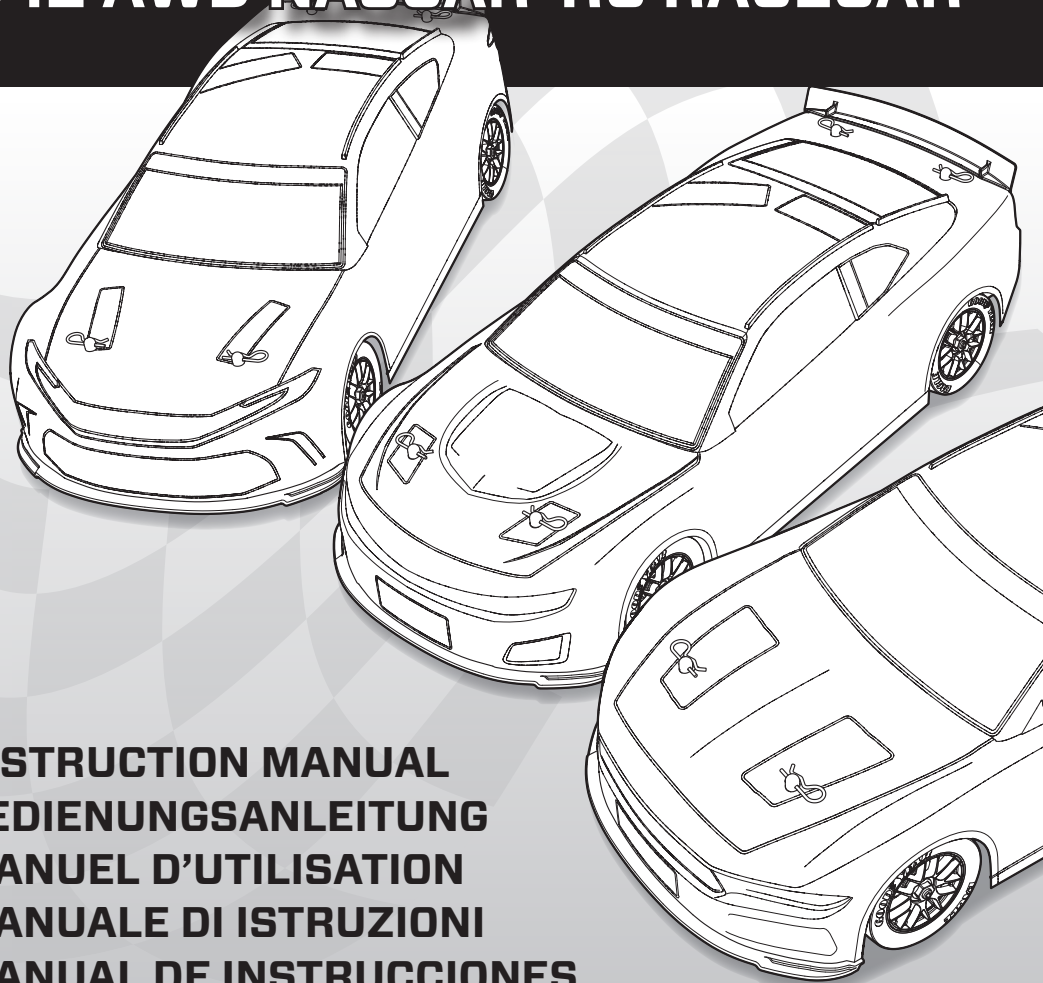




# 1/12 AWD NASCAR® RC RACECAR



**INSTRUCTION MANUAL  
BEDIENUNGSANLEITUNG  
MANUEL D'UTILISATION  
MANUALE DI ISTRUZIONI  
MANUAL DE INSTRUCCIONES**

## NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC. For up-to-date product literature, visit [www.horizonhobby.com](http://www.horizonhobby.com) or [www.towerhobbies.com](http://www.towerhobbies.com) and click on the support or resources tab for this product.


## MEANING OF SPECIAL LANGUAGE


The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product:

**WARNING:** Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury.

**CAUTION:** Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury.

**NOTICE:** Procedures, which if not properly followed, create a possibility of physical property damage AND a little or no possibility of injury.

 **WARNING:** Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury. This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not use with incompatible components or alter this product in any way outside of the instructions provided by Horizon Hobby, LLC. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

 **WARNING AGAINST COUNTERFEIT PRODUCTS:** Always purchase from a Horizon Hobby authorized dealer to ensure authentic high-quality Spektrum product. Horizon Hobby, LLC disclaims all support and warranty with regards, but not limited to, compatibility and performance of counterfeit products or products claiming compatibility with DSM or Spektrum technology.

**Age Recommendation: Not for children under 14 years. This is not a toy.**

## SAFETY PRECAUTIONS AND WARNINGS

- Always keep a safe distance in all directions around your model to avoid collisions or injury. This model is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
- Always operate your model in open spaces away from full-size vehicles, traffic and people.
- Always carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.).
- Always keep all chemicals, small parts and anything electrical out of the reach of children.
- Always avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture causes damage to electronics.
- Never place any portion of the model in your mouth as it could cause serious injury or even death.
- Never operate your model with low transmitter batteries.

## REGISTER YOUR LOSI PRODUCT ONLINE

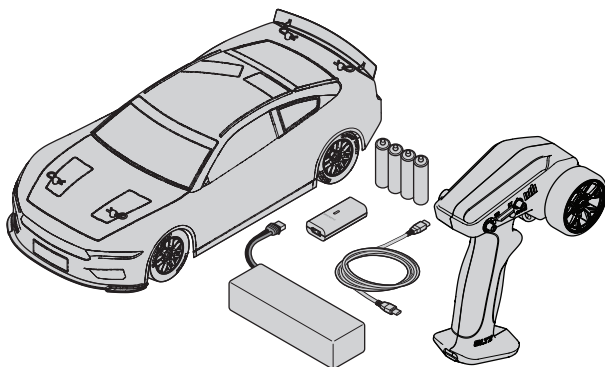
Register your vehicle now and be the first to find out about the latest option parts, product updates and more. Click on the Support tab at [www.losi.com](http://www.losi.com) and follow the product registration link to stay connected.

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## BOX CONTENTS

- LOSI 1/12 AWD NASCAR RC Racecar
- Spektrum™ SLT2 2.4GHz Transmitter (SPMRSLT270)
- Spektrum 1400 mAh 2S 7.4V Smart G2 30C LiPo Battery with IC2 Connector (SPMX142S30H2)
- Spektrum S10 Smart G2 USB-C LiPo Battery Charger (SPMXC0040)
- USB-C Charging Adapter
- 4 AA Alkaline Batteries



## WATER-RESISTANT VEHICLE WITH WATERPROOF ELECTRONICS

Your new Horizon Hobby vehicle has been designed and built with a combination of waterproof and water-resistant components to allow you to operate the product in many “wet conditions,” including puddles, creeks, wet grass, snow and even rain.

While the entire vehicle is highly water-resistant, it is not completely waterproof and your vehicle should NOT be treated like a submarine. The various electronic components used in the vehicle, such as the Electronic Speed Control (ESC), servo(s) and receiver are waterproof, however, most of the mechanical components are water-resistant and should not be submerged. Metal parts, including the bearings, hinge pins, screws and nuts, as well as the contacts in the electrical cables, will be susceptible to corrosion if additional maintenance is not performed after running in wet conditions. To maximize the long-term performance of your vehicle and to keep the warranty intact, the procedures described in

the “Wet Conditions Maintenance” section below must be performed regularly if you choose to run in wet conditions. If you are not willing to perform the additional care and maintenance required, then you should not operate the vehicle in those conditions.



**CAUTION:** Failure to exercise caution while using this product and complying with the following precautions could result in product malfunction and/or void the warranty.

### GENERAL PRECAUTIONS

- Read through the wet conditions maintenance procedures and make sure that you have all the tools you will need to properly maintain your vehicle.
- Not all batteries can be used in wet conditions. Consult the battery manufacturer before use. Caution should be taken when using Li-Po batteries in wet conditions.



- Most transmitters are not water-resistant. Consult your transmitter's manual or the manufacturer before operation.
- Never operate your transmitter or vehicle where lightning may be present.
- Do not operate your vehicle where it could come in contact with salt water (ocean water or water on salt-covered roads), contaminated or polluted water. Salt water is very conductive and highly corrosive, so use caution.
- Even minimal water contact can reduce the life of your motor if it has not been certified as water-resistant or waterproof. If the motor becomes excessively wet, apply very light throttle until the water is mostly removed from the motor. Running a wet motor at high speeds may rapidly damage the motor.
- Driving in wet conditions can reduce the life of the motor. The additional resistance of operating in water causes excess strain. Alter the gear ratio by using a smaller pinion or larger spur gear. This will increase torque (and motor life) when running in mud, deeper puddles, or any wet conditions that will increase the load on the motor for an extended period of time.

#### WET CONDITIONS MAINTENANCE

- Drain any water that has collected in the tires by spinning them at high speed. With the body removed, place the vehicle upside down and pull full throttle for a few short bursts until the water has been removed.



**CAUTION:** Always keep hands, fingers, tools and any loose or hanging objects away from rotating parts when performing the above drying technique.

- Remove the battery pack(s) and dry the contacts. If you have an air compressor or a can of compressed air, blow out any water that may be inside the recessed connector housing.
- Remove the tires/wheels from the vehicle and gently rinse the mud and dirt off with a garden hose. Avoid rinsing the bearings and transmission.

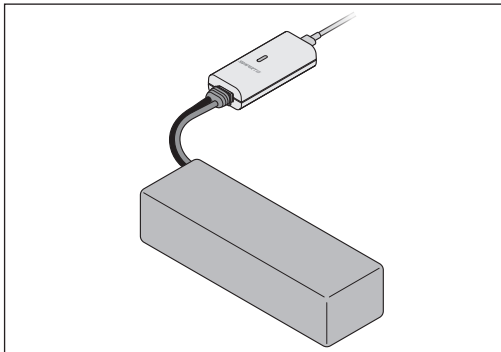
**NOTICE:** Never use a pressure washer to clean your vehicle.

- Use an air compressor or a can of compressed air to dry the vehicle and help remove any water that may have gotten into small crevices or corners.
- Spray the bearings, drive train, fasteners and other metal parts with a water-displacing light oil. Do not spray the motor.
- Let the vehicle air dry before you store it. Water (and oil) may continue to drip for a few hours.
- Increase the frequency of disassembly, inspection and lubrication of the following:
  - Front and rear axle hub assembly bearings.
  - All transmission cases, gears and differentials.
  - Motor—clean with an aerosol motor cleaner and re-oil the bushings with lightweight motor oil.

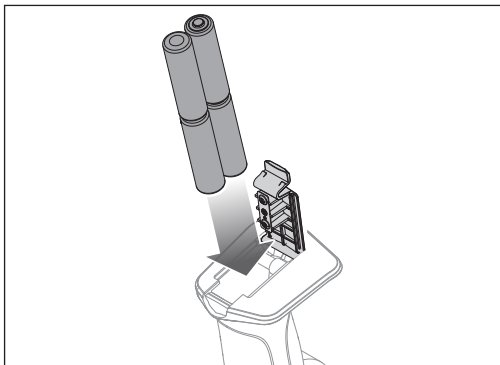


## GETTING STARTED

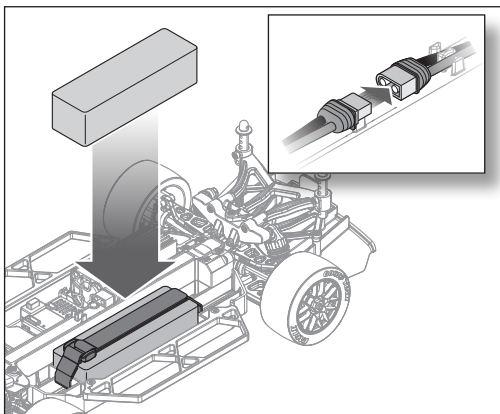
### 1. CHARGE THE VEHICLE BATTERY



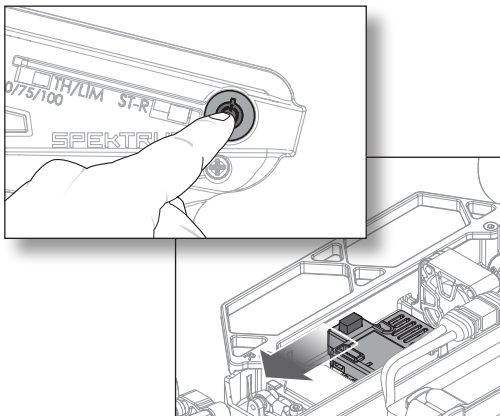
### 2. INSTALL THE TRANSMITTER BATTERIES



### 3. INSTALL THE VEHICLE BATTERY

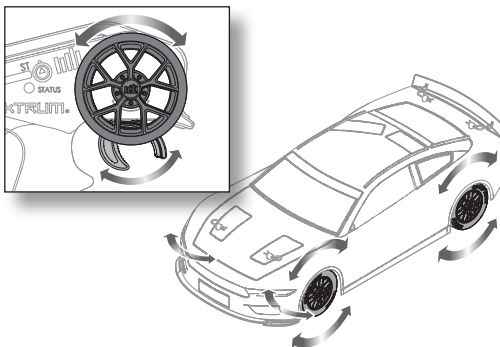


### 4. POWER ON

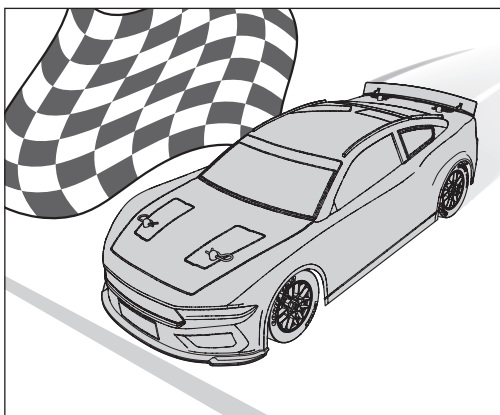


**NOTICE:** ALWAYS power on the transmitter before you power on the vehicle.

### 5. CHECK THE CONTROLS



### 6. HAVE FUN!



## GENERAL CHARGING WARNINGS



**WARNING:** Failure to exercise caution while using this product and comply with the following warnings could result in product malfunction, electrical issues, excessive heat, FIRE, and ultimately injury and property damage.

- **NEVER LEAVE CHARGING BATTERIES UNATTENDED DURING USE.**

- **NEVER CHARGE BATTERIES OVERNIGHT.**

- The power supply must deliver power at Safety Extra Low Voltage (SELV).
- Never attempt to charge dead, damaged or wet battery packs.
- Never attempt to charge a battery pack containing different types of batteries.
- Never allow children under 14 years of age to charge battery packs.
- Never charge batteries in extremely hot or cold places or place in direct sunlight.
- Never charge a battery if the cable has been pinched or shorted.
- Never connect the charger if the power cable has been pinched or shorted.
- Never connect the charger to an automobile 12V battery while the vehicle is running.
- Never attempt to dismantle the charger or use a damaged charger.
- Never attach your charger to both an AC and a DC power source at the same time.
- Never connect the input jack (DC input) to AC power.
- Always use only rechargeable batteries designed for use with this type of charger in the correct programming mode.
- Always inspect the battery before charging.
- Always keep the battery away from any material that could be affected by heat.

- Always monitor the charging area and have a fire extinguisher available at all times. Always end the charging process if the battery becomes hot to the touch or starts to change form (swell) during the charge process.
- Always connect the charge cable to the charger first, then connect the battery to avoid short circuit between the charge leads. Reverse the sequence when disconnecting.
- Always connect the positive red leads (+) and negative black leads (-) correctly.
- Always disconnect the battery after charging, and let the charger cool between charges.
- Always charge in a well-ventilated area.
- Always terminate all processes and contact Horizon Hobby if the product malfunctions.
- Charge only rechargeable batteries. Charging non-rechargeable batteries may cause the batteries to burst, resulting in injury to persons and/or damage to property.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.

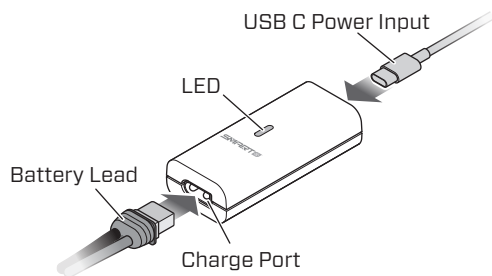


**WARNING:** Never leave charger unattended, exceed maximum charge rate, charge with non-approved batteries or charge batteries in the wrong mode. Failure to comply may result in excessive heat, fire and serious injury.



**CAUTION:** Always ensure the battery you are charging meets the specifications of this charger and that the charger settings are correct. Not doing so can result in excessive heat and other related product malfunctions, which can lead to user injury or property damage. Please contact Horizon Hobby or an authorized retailer with compatibility questions.

## OPERATING THE CHARGER



1. Plug the USB-C connector into the charger power port and an appropriate 5V, 3.0A max power supply (not included). The LED on the charger will flash red / green to indicate the charger is ready.
2. Plug the vehicle battery lead into the charge port.
  - The LED flashes green while charging.
  - The LED glows solid green to indicate charging is complete.
3. Disconnect the battery from the charger.

### STOPPING THE CHARGING CYCLE



**WARNING:** Always stop the charging cycle or remove power supplied to the charger if you notice any irregularities (like a swollen battery) during charging.

To stop the charging cycle, disconnect the battery from the charger.

### CHARGER SPECIFICATIONS

| S10   |                        |
|---|------------------------|
| <b>Output Port Connector</b>                        | IC2                    |
| <b>Power Supply Input Voltage</b><br>(not included) | DC 5.0V (3.0A Max)     |
| <b>Charge Current</b>                               | 1-8.4V (1.5A Max)      |
| <b>Supported Battery Type</b>                       | Smart G2 LiPo 2S       |
| <b>Related Battery Capacity (Max.)</b>              | 500-5300mAh            |
| <b>Display</b>                                      | LED                    |
| <b>Operating Temperature</b>                        | 0-40°C (32-104°F)      |
| <b>Storage Temperature</b>                          | -20-60°C<br>(-4-140°F) |
| <b>Length</b>                                       | 44mm                   |
| <b>Width</b>  | 24mm                   |
| <b>Height</b>                                       | 14.5mm                 |
| <b>Weight</b>                                       | 25g                    |

### Charger LED Indicator

|                           |   |
|---------------------------|---|
| <b>Solid Red*</b>         | Charging error; ensure battery is healthy and properly connected to the charger |
| <b>Green Flashing</b>     | Charging in progress  |
| <b>Solid Green</b>        | Charging complete   |
| <b>Red/Green Flashing</b> | Charger is ready to charge  |

\*A solid red LED indicates a charging error. Make the necessary changes, and restart the charger to clear the error.



## INSTALL THE TRANSMITTER BATTERIES

This transmitter requires 4 AA batteries.

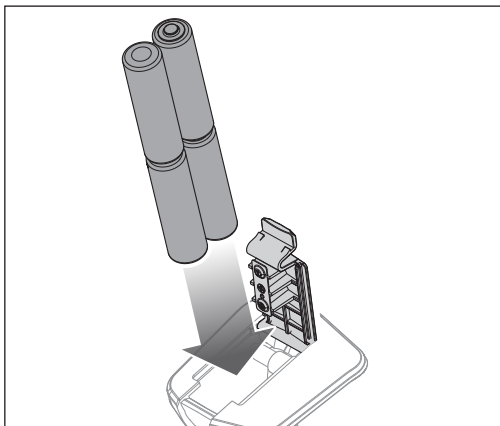
1. Open the battery cover on the bottom of the transmitter.
2. Install the included AA batteries as shown, noting the proper polarity.
3. Fully close the battery cover.



**CAUTION:** NEVER remove the transmitter batteries while the model is powered on. Loss of model control, damage, or injury may occur.

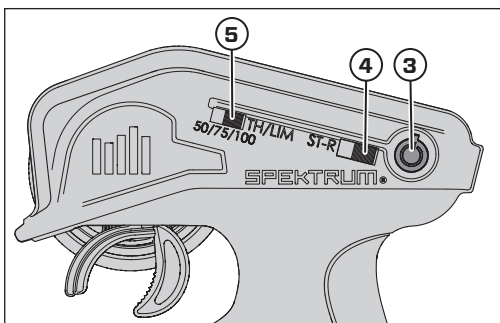
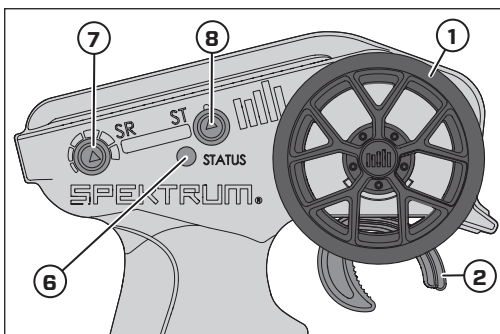


**CAUTION:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to national regulations.



## TRANSMITTER FUNCTIONS

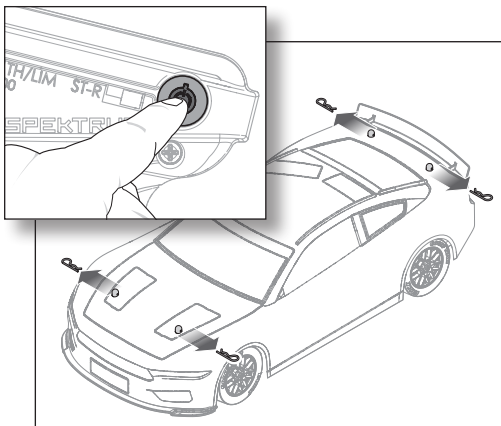
1. **Steering Wheel** Controls direction (left/right) of the model
2. **Throttle Trigger** Controls speed and direction (forward/brake/reverse) of the model
3. **Power Button** Turns the power on/off
4. **Steering (ST-R) Servo Reversing** Reverses the steering channel
5. **Throttle Limit** Limits throttle output to 50/75/100%  
Select 50% or 75% for less experienced drivers or when you are driving the vehicle in a small area
6. **Indicator Lights**  
**Solid red light**—Indicates radio connectivity and adequate battery power  
**Flashing red light**—Indicates the battery voltage is critically low. Replace the batteries
7. **Steering Rate** Adjusts the steering end points
8. **Steering Trim** Adjusts the steering center point



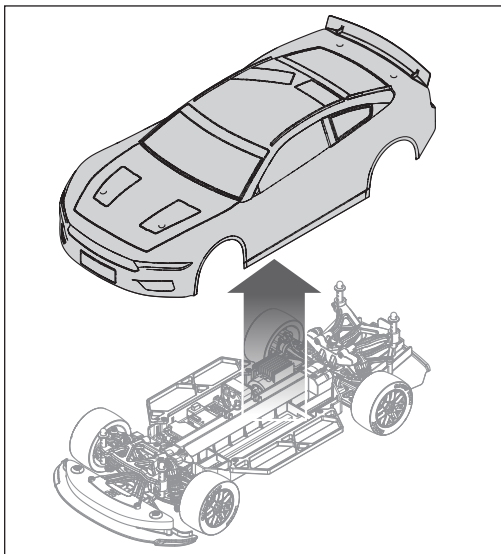
## INSTALL THE VEHICLE BATTERY

**NOTICE:** ALWAYS power on the transmitter before you power on the vehicle.

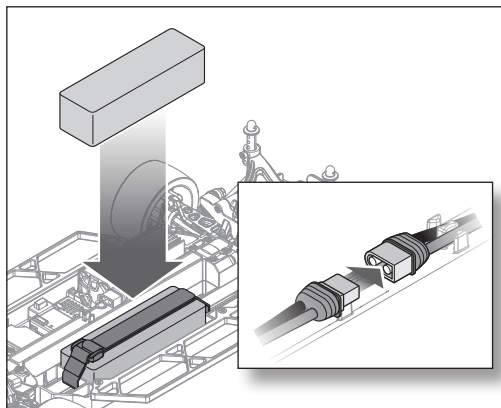
1. Power on the transmitter.
2. Remove the four body mount pins.



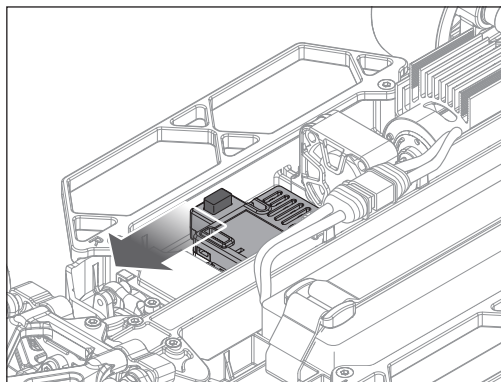
3. Lift the body off the chassis.



4. Install the battery in the tray on the chassis.
5. Secure the battery with the hook and loop strap.
6. Connect the battery lead to the vehicle power lead. The IC2 connectors will only fit together one way. Do not force the connectors together.

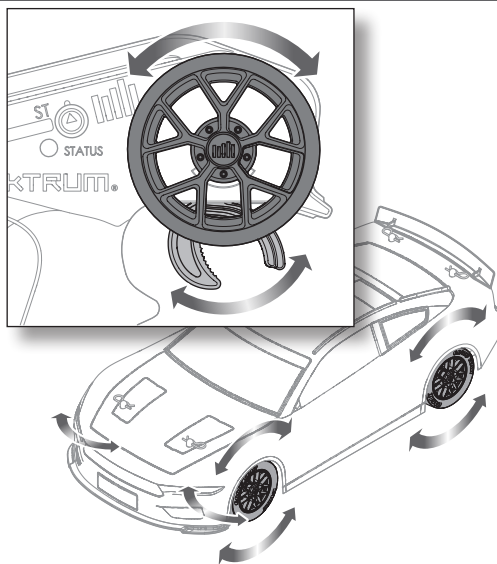


7. Power on the receiver/speed control.
8. Re-install the body and body pins on the chassis.



## CONTROL TEST

With the vehicle wheels off the ground, test the throttle and steering controls. Ensure the wheels spin in the proper direction and the front wheels turn in the proper direction with steering input. After checking for proper direction of controls, place the vehicle on a smooth surface and start driving slowly. If the vehicle veers to either side without steering input, adjust the steering trim dial on the transmitter until the vehicle holds a straight line with no steering input. Have FUN driving your vehicle!



## RANGE CHECK

The radio system should be checked before operating the vehicle to ensure proper operation and adequate range.

1. Turn on the transmitter.
2. Install the battery in the vehicle.
3. Have a friend hold the vehicle while keeping hands and loose clothing away from moving parts.
4. Walk away until you are at the maximum planned operating distance from the vehicle.
5. Turn the steering wheel side to side and operate the throttle, both forward and reverse, checking for any erratic behavior.
6. If any erratic behavior is exhibited, DO NOT operate the vehicle. Check the troubleshooting guide. If problem persists, call customer service for assistance.

## OPERATING THE VEHICLE

- ALWAYS power on your transmitter before you power on the receiver in the vehicle.
  - ALWAYS power off the receiver before powering off the transmitter.
  - ALWAYS operate your vehicle in a wide open area. Operating the vehicle in a small space or indoors can cause overheating at low speeds. Operating at low speed increases heat in the electronic speed control (ESC). Overheating can damage the vehicle and failure may result.
1. Center the ST TRIM dial on the transmitter.
  2. Power on the transmitter.
  3. Open the body as described in the Installing the Vehicle Battery section.
  4. Install and connect a fully charged battery pack to the ESC.
  5. Power on the ESC.
  6. Close and latch the body.
  7. Perform a test of the transmitter's control of the vehicle with the vehicle's wheels off the ground.
  8. Start driving slowly. If the vehicle does not go straight, adjust the ST trim dial on the transmitter right or left to correct the vehicle path.

## DRIVING PRECAUTIONS

- Maintain sight of the vehicle at all times.
- Inspect the vehicle for loose wheel hardware.
- Inspect the steering assembly for any loose hardware.
- Do not drive the vehicle in tall grass. Doing so can damage the vehicle or electronics.
- Stop driving the vehicle when you notice a lack of power. Driving the vehicle when the battery is discharged can cause the receiver to power off, causing loss of control.

- Do not apply the throttle in forward or reverse if the vehicle is stuck. Applying throttle in this instance can damage the motor or ESC.
- After driving the vehicle, allow the electronics to cool to ambient temperature before using the next battery pack.

**NOTICE:** ALWAYS power off the vehicle before you power off the transmitter.

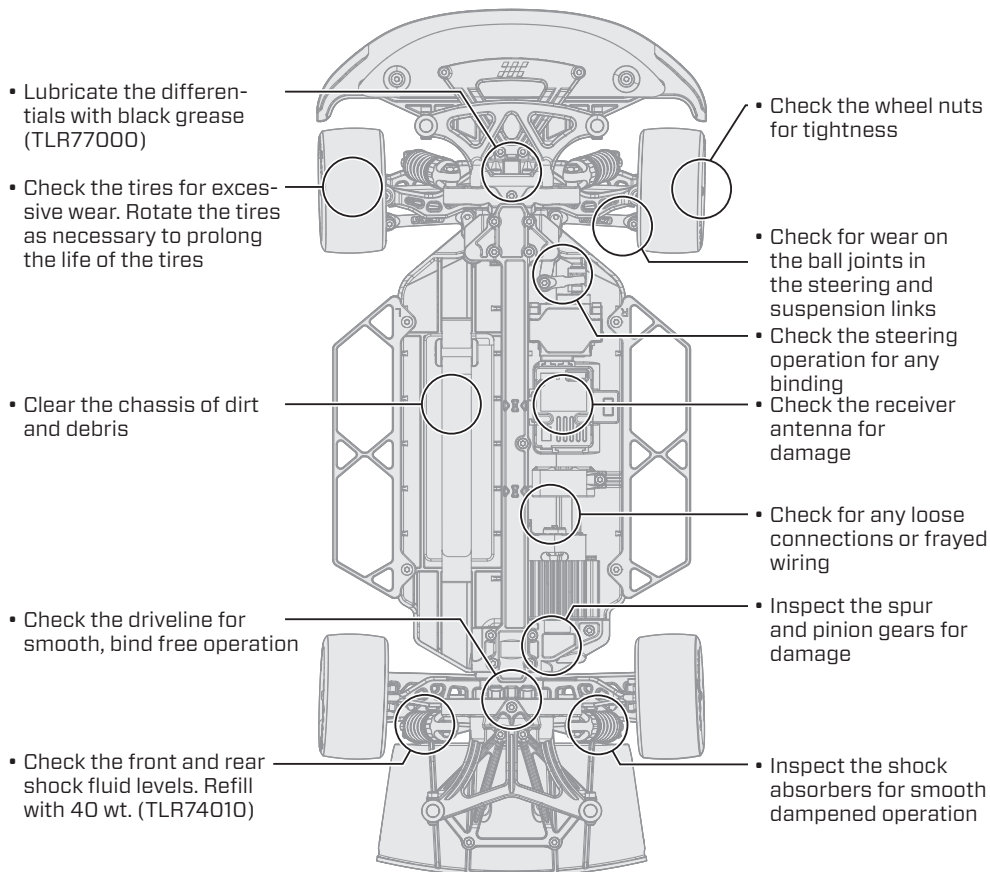
## VEHICLE MAINTENANCE



**CAUTION:** Power off the vehicle, and remove the battery from the chassis prior to doing any maintenance on your vehicle.

After every run, do a visual inspection of the vehicle, including the following:

- Check for loose screws on the chassis
- Replace any noticeably bent or broken parts



## TIRE ROTATION

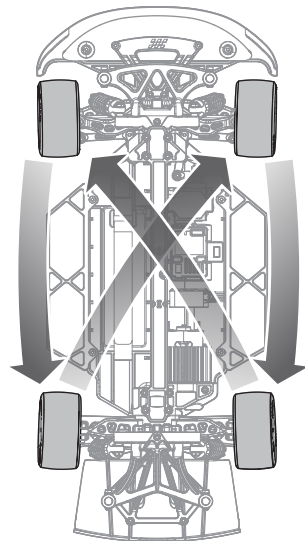
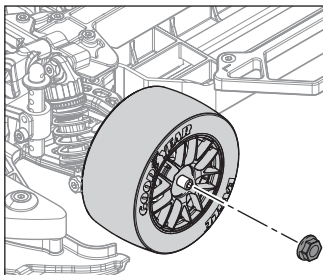
To improve the handling and extend the lifespan of the tires, the tires should be rotated approximately every 4 battery runs, particularly if you are racing on a paved oval for extended periods.

To rotate the tires:

1. Using a 7mm hex driver, remove the wheel nut.
2. Pull the wheel from the axle.
3. Re-position the wheel on the chassis, as shown in the illustration. Move the front wheels to the back, and the back wheels to the opposite side of the front.

**IMPORTANT:** When installing the wheels, ensure the hex on the inside of the wheel lines up with the hex on the axle, and the wheel is fully seated on the axle.

4. Replace the wheel nut on the axle. Do not overtighten the wheel nut.

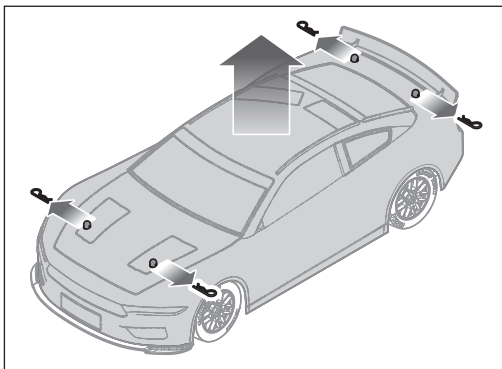




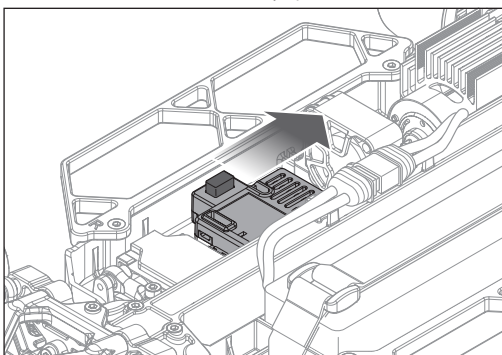
## REMOVE THE VEHICLE BATTERY

**NOTICE:** ALWAYS power off the vehicle before you power off the transmitter.

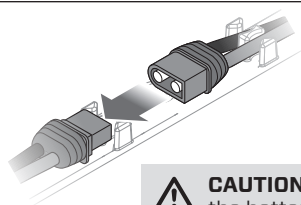
1. Remove the four body mount pins.
2. Lift the body off the chassis.



3. Power OFF the receiver/speed control.

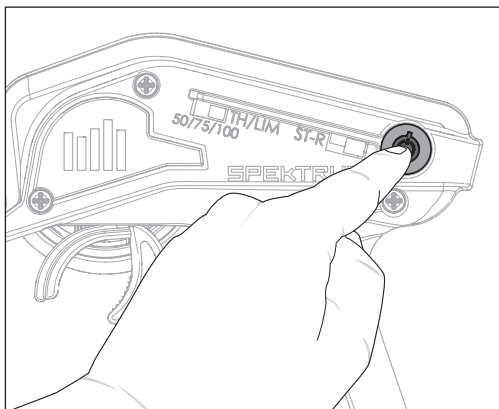


4. Disconnect the vehicle battery.



**CAUTION:** NEVER leave the battery connected to the vehicle when not in use. Damage to the battery may result.

5. Power OFF the transmitter.



## TROUBLESHOOTING

| Problem  | Possible Cause   | Solution   |
|--|--|--|
| System will not connect  | Transmitter and receiver are too close together  | Move transmitter 8 to 12 feet away from receiver   |
|  | You are near metal objects   | Move to an area with less metal  |
|  | The receiver is bound to a different transmitter   | Rebind the transmitter and receiver  |
|  | The receiver was placed into bind mode and is no longer bound to the transmitter   | Rebind the transmitter and receiver, and then re-calibrate   |
| Receiver goes into failsafe a short distance away from the transmitter | Check for damage on the receiver antenna   | Make sure your receiver antenna is protected and located as high as practical                              |
|  |  | Replace the receiver or contact Horizon Product Support  |
| Receiver stops responding during operation                             | Low receiver battery voltage. If the battery voltage is low, it may drop below 3.5V momentarily, causing the receiver to brown-out, then reconnect | Charge the receiver or vehicle battery. Spektrum receivers require at least 3.5V to operate                |
|  | Loose or damaged wires or connectors between battery and receiver  | Check the wires and connection between the battery and receiver. Repair or replace wires and/or connectors |
| Vehicle does not move  | Batteries are not installed properly in the transmitter  | Ensure the transmitter batteries are properly installed  |
|  | Weak or no battery in the vehicle  | Install a freshly charged vehicle battery  |
|  | Damaged motor  | Replace the motor  |
|  | Frayed or broken wiring  | Replace any damaged wiring   |
|  | ESC is shut down by heat protection circuit  | Allow the ESC to cool down completely  |
| Vehicle loses control  | Improper antenna placement   | Ensure the transmitter antenna is not blocked and the receiver antenna is located properly                 |
|  | Weak or no batteries in the transmitter or vehicle   | Install a freshly charged vehicle battery and new transmitter batteries                                    |
|  | Neutral or trim position is incorrect  | Adjust the steering trim   |
|  | Receiver and/or battery not connected properly   | Check all receiver and battery connections   |
| Steering and/or throttle function is reversed                          | Servo travel is reversed at the transmitter  | Set the transmitter servo reversing switch to the correct position   |
|  | Motor wires are not connected properly   | Check all motor wires for correct polarity and secure connection   |
| ESC ON — No motor function, audible tone or LED                        | Battery/connection issue   | Recharge/replace battery. Secure all connections   |
|  | Damaged ESC  | Repair/replace ESC   |
|  | Damaged motor  | Repair/replace   |

| Problem  | Possible Cause                    | Solution  |
|--|-----------------------------------|---|
| Motor — Stops and LED blinks                               | Low voltage protection            | When the ESC LED blinks, recharge/replace battery   |
|  | Overheat protection               | When the LED blinks, let motor/ESC cool, change set up or gearing to avoid overheating                              |
| Motor — Accelerates irregularly                            | Battery issue                     | Repair damaged wiring/replace battery   |
|  | Incorrect gearing                 | Adjust/replace gearing  |
|  | Worn or damaged motor             | Repair/replace motor  |
| Motor — Does not turn continuously in response to throttle | Binding in the drive train        | Check the drive shafts and gears for any foreign objects and remove debris.   |
|  | ESC/motor damaged                 | Repair/replace wiring or motor/ESC  |
| Steering servo — Operates; motor does not run              | Damaged motor                     | Test the motor apart from the vehicle system, repair/replace motor as needed  |
|  | Low battery voltage cutoff        | Replace battery in the vehicle with fully charged battery.  |
| Steering/motor — not functioning                           | Low battery voltage               | Recharge/replace  |
|  | Transmitter not powered on        | Check the power button and indicator light is illuminated. Check for correct polarity of the transmitter batteries. |
|  | Receiver not bound to transmitter | Bind transmitter to receiver, refer to transmitter and/or receiver manual   |
| Vehicle — Does not operate at full speed                   | Weak vehicle battery              | Check the charge level of battery. Replace the vehicle battery if it is no longer performing as expected.           |
|  | Incorrect transmitter setting     | Check transmitter setting is set to 100%  |
|  | Motor brushes are worn            | Replace the motor   |

## LIMITED WARRANTY

### What this Warranty Covers

Horizon Hobby, LLC, (Horizon) warrants to the original purchaser that the product purchased (the "Product") will be free from defects in materials and workmanship for a period of 2 years from the date of purchase.

### What is Not Covered

This warranty is not transferable and does not cover (i) cosmetic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (iii) modification of or to any part of the Product, (iv) attempted service by anyone other than a Horizon Hobby authorized service center, (v) Product not purchased from an authorized Horizon dealer, or (vi) Product not compliant with applicable technical regulations or (vii) use that violates any applicable laws, rules, or regulations.

OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARRANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

### Purchaser's Remedy

Horizon's sole obligation and purchaser's sole and exclusive remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any Product determined by Horizon to be defective. Horizon reserves the right to inspect any and all Product(s)



involved in a warranty claim. Service or replacement decisions are at the sole discretion of Horizon. Proof of purchase is required for all warranty claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.

#### **Limitation of Liability**

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability. If you as the purchaser or user are not prepared to accept the liability associated with the use of the Product, purchaser is advised to return the Product immediately in new and unused condition to the place of purchase.

#### **Law**

These terms are governed by Illinois law (without regard to conflict of law principals). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Horizon reserves the right to change or modify this warranty at any time without notice.

### **WARRANTY SERVICES**

#### **Questions, Assistance, and Services**

Your local hobby store and/or place of purchase cannot provide warranty support or service. Once assembly, setup or use of the Product has been started, you must contact your local distributor or Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please visit our website at [www.horizonhobby.com](http://www.horizonhobby.com), submit a Product Support Inquiry, or call the toll free telephone number referenced in the Warranty and Service Contact Information section to speak with a Product Support representative.

#### **Inspection or Services**

If this Product needs to be inspected or serviced and is compliant in the country you live and use the Product in, please use the Horizon Online Service Request submission process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) number. Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insur-

ance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. An Online Service Request is available at [http://www.horizonhobby.com/content/service-center\\_render-service-center](http://www.horizonhobby.com/content/service-center_render-service-center). If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with instructions for submitting your product for service. When calling Horizon, you will be asked to provide your complete name, street address, email address and phone number where you can be reached during business hours. When sending product into Horizon, please include your RMA number, a list of the included items, and a brief summary of the problem. A copy of your original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

**NOTICE:** Do not ship Li-Po batteries to Horizon.

If you have any issue with a Li-Po battery, please contact the appropriate Horizon Product Support office.

### **Warranty Requirements**

For Warranty consideration, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be serviced or replaced free of charge. Service or replacement decisions are at the sole discretion of Horizon.

### **Non-Warranty Service**

Should your service not be covered by warranty, service will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for service you are agreeing to payment of the service without notification. Service estimates are available upon request. You must include this request with your item submitted for service. Non-warranty service estimates will be billed a minimum of 1/2 hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashier's checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for service, you are agreeing to Horizon's Terms and Conditions found on our website [http://www.horizonhobby.com/content/service-center\\_render-service-center](http://www.horizonhobby.com/content/service-center_render-service-center).

**ATTENTION:** Horizon service is limited to Product compliant in the country of use and ownership. If received, a non-compliant Product will not be serviced. Further, the sender will be responsible for arranging return shipment of the un-serviced Product, through a carrier of the sender's choice and at the sender's expense. Horizon will hold non-compliant Product for a period of 60 days from notification, after which it will be discarded.

## WARRANTY AND SERVICE CONTACT INFORMATION

| Country of Purchase      | Horizon Hobby  | Contact Information                             | Address                                 |
|--------------------------|--|---|---|
| United States of America | Horizon Service Center (Repairs and Repair Requests)   | servicecenter.horizonhobby.com/RequestForm/     | 2904 Research Rd<br>Champaign, IL 61822 |
|                          | Horizon Product Support (Product Technical Assistance) | productsupport@horizonhobby.com<br>877-504-0233 |   |
|                          | Sales  | websales@horizonhobby.com<br>800-338-4639       |   |

## FCC INFORMATION

**FC TRANSMITTER FCC ID: BRWSPMSLT200F**  
**SUPPLIER'S DECLARATION OF CONFORMITY: Losi 1/12 AWD NASCAR RC Racecar (LOS11225XX)**

This device complies with 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.



**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not

installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Horizon Hobby, LLC  
 2904 Research Rd.,  
 Champaign, IL 61822  
 Email: [compliance@horizonhobby.com](mailto:compliance@horizonhobby.com)  
 Web: [HorizonHobby.com](http://HorizonHobby.com)

## IC INFORMATION

**CAN ICES-3 (B)/NMB-3(B)**  
**TRANSMITTER IC: 6157A-SPMSLT200F**

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following 2 conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.



## COMPLIANCE INFORMATION FOR THE EUROPEAN UNION



### EU Compliance Statement: LOSI 1/12 AWD LOSI NASCAR RC Racecar (LOS11225XX):

Hereby, Horizon Hobby, LLC declares that the device is in compliance with the following: EU Low Voltage Directive 2014/35/EU; EU EMC Directive 2014/30/EU; EU Radio Equipment Directive 2014/53/EU; RoHS 2 Directive 2011/65/EU; RoHS 3 Directive - Amending 2011/65/EU Annex II 2015/863.

The full text of the EU declaration of conformity is available at the following internet address: <https://www.horizonhobby.com/content/support-render-compliance>.

**NOTE:** This product contains batteries that are covered under the 2006/66/EC European Directive, which cannot be disposed of with normal household waste. Please follow local regulations.

### Wireless Frequency Range and Wireless

#### Output Power:

#### Transmitter:

2410-2480 MHz

13.66 dBm



UK  
CA

### EU Manufacturer of Record:

Horizon Hobby, LLC  
2904 Research Road  
Champaign, IL 61822 USA

### EU Importer of Record:

Horizon Hobby, GmbH  
Hanskampring 9  
22885 Barsbüttel Germany

### WEEE NOTICE:



This appliance is labeled in accordance with European Directive 2012/19/EU concerning waste of electrical and electronic equipment (WEEE). This label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.

## REPLACEMENT PARTS

| Part #       | Description                                    |
|--------------|--|
| LOS-1907     | 28T 380 Sized Brushed Motor: NG                |
| LOS-1914     | Goodyear Eagle Mounted Tires, Medium (4): NG   |
| LOS-1915     | Rear Diffuser: NG                              |
| LOS-1916     | Composite Chassis 225mm: NG                    |
| LOS-1919     | Top Deck 225mm: NG                             |
| LOS-1920     | 380 Motor Heatsink: NG                         |
| LOS-1921     | Nerf Bar Set 225mm: NG                         |
| LOS-1926     | Front Bumper & Splitter: NG                    |
| LOS-1927     | Camber & Steering Link Set: NG                 |
| LOS-1928     | Body Mount Set: NG                             |
| LOS-1930     | Center Driveshaft 225mm: NG                    |
| LOS-1932     | Servo & Motor Plate (17-19t): NG               |
| LOS-1934     | Spoiler Set: NG                                |
| LOS-1935     | Wheel Axle & Hex Set: NG                       |
| LOS-1936     | Shocks, Assembled (2), On-Road: NG             |
| LOS-2516     | Body Clips (12): NG                            |
| SPMSSX110    | Micro Metal Gear Servo                         |
| SPMX142S30H2 | 7.4V 1400mAh 2S 30C Smart G2 LiPo Battery: IC2 |
| SPMXC0040    | S10 G2 LiPo USB-C Smart Charger: IC2 Connector |
| SPMXSE3125RX | SLT RX / 25A Brushed ESC, IC2                  |
| ARA-1251     | Motor Fan & Mount Set: NG                      |
| ARA-1254     | M2.5x8mm Button Head Screw with M3 Head (10)   |
| ARA-1418     | Battery Strap Set for 200mm Chassis: NG        |
| ARA311177V2  | Assembled Differential 30T 0.8Mod V2 (1): NG   |
| ARA311181    | CVD Rebuild Set                                |
| ARA311182    | Input Gear Set                                 |
| ARA311196    | Metal Spur Gear 59T                            |

| Part #      | Description                            |
|-------------|--|
| ARA311205   | Pinion Gear 19T MOD 0.5 CNC 2.3mm Bore |
| ARA311226   | CVD Driveshaft 44mm (2)                |
| ARA311227   | Dogbone 40.5mm (2)                     |
| ARA311229   | Wheel Axle and Hub Set B: NG           |
| ARA320744   | Motor Mount Set (8)                    |
| ARA320749   | Diff Cover Set (2): GROM               |
| ARA320750   | Hingepin 2.5x37mm (4)                  |
| ARA330803   | Ball 5.3x5.9x2.5mm (10)                |
| ARA330804   | Ball 4.8x4.9x2.5mm (10)                |
| ARA330839   | Front Suspension Arm Set B: GROM       |
| ARA330840   | Rear Suspension Arm Set B: GROM        |
| ARA330841   | Hub Set B (F+R): GROM                  |
| ARA340202   | Steering Set                           |
| ARA340203V2 | Servo Saver Set                        |
| ARA610052   | Ball Bearing 8x12x3.5mm (2RS) (4)      |
| ARA610053   | Ball Bearing 7x11x3mm (2RS) (4)        |
| ARA702009   | Flat Head Screw M2x10mm (10)           |
| ARA702010   | Cap Head Screw M2.5x8mm (10)           |
| ARA702011   | Cap Head Screw M2.5x12mm (10)          |
| ARA702012   | Cap Head Screw M2x10mm (10)            |
| ARA702013   | Button Head Screw Pin M3x24mm (10pcs)  |
| ARA702014   | Flanged Cap Head Screw M2x12mm (10)    |
| ARA702015   | Step Screw M2.5x16mm (10)              |
| ARA702017   | Flat Head Screw M2.5x12mm (10)         |
| ARA702018   | Flat Head Screw M1.6x12mm (10)         |
| ARA702019   | Hex Head Screw M2.5x12mm 5.5mm (10)    |
| ARA724304   | Set Screw M3x4mm (10)                  |



## OPTIONAL PARTS

| Part #    | Description   |
|-----------|---|
| LOS-1906  | Aluminum Bell Crank Set: NG                                       |
| LOS-1910  | Aluminum Servo Horn, 20T: NG                                      |
| LOS-1912  | Center Driveshaft, Aluminum, 203.5mm: NG                          |
| LOS-1923  | Adjustable Camber & Steering Link Set: NG                         |
| LOS-1924  | Battery Spacer, Foam: NG  |
| LOS-1929  | Aluminum Hex Drive Set: NG  |
| LOS-1931  | Aluminum Shock Set, On-Road, Assembled, Red (4): NG               |
| LOS-1933  | Tuning Spring Set (7-11lb/in, 2), On-Road: NG                     |
| LOS-1937  | Goodyear Eagle Mounted Tires, Soft (4): NG                        |
| LOS-1947  | Rear Hubs, Aluminum: NG   |
| LOS-1948  | Spindle Set, Aluminum: NG   |
| LOS-1949  | Motor Mount, Aluminum, Adjustable: NG                             |
| LOS-1950  | Spur Gear, Machined Delrin, 59T MOD 0.5: NG                       |
| LOS-1951  | Car Stand, Foam: NG   |
| LOS-2259  | Hendricks Track Upgrade   |
| ARA311193 | Assembled Oil Filled Differential 30T 0.8Mod, 3000cSt Oil (2): NG |
| ARA311203 | Pinion Gear 17T MOD 0.5 CNC 2.3mm Bore                            |

| Part #     | Description   |
|------------|---|
| ARA311204  | Pinion Gear 18T MOD 0.5 CNC 2.3mm Bore  |
| ARA311206  | Pinion Gear 20T MOD 0.5 CNC 2.3mm Bore  |
| ARA311207  | Pinion Gear 21T MOD 0.5 CNC 2.3mm Bore  |
| ARA311208  | Pinion Gear 22T MOD 0.5 CNC 2.3mm Bore  |
| SPMX812SH2 | 7.4V 810mAh 2S Smart G2 50C LiPo: IC2   |
| SPMXCA320  | Adapter: IC3 Battery / IC2 Device   |
| ARA311208  | Pinion Gear 22T MOD 0.5 CNC 2.3mm Bore  |
| SPMXCA320  | Adapter: IC3 Battery / IC2 Device   |
| SPMXPSS215 | Smart Powerstage Surface Bundle: 1400mAh 2S 30C LiPo Battery (IC2) / 100W S100 Charger / 65W Power Adapter/ Adapter |
| SPMX-1089  | 11.1V 1300mAh 3S 30C Smart G2 LiPo Battery: IC2 Connector   |
| SPMX-1111  | Firma 30A BL Smart ESC: 1/12 Losi NASCAR AWD RC Racecar   |
| SPMXSM4700 | FIRMA 2840 4500Kv 4-Pole BL Motor   |

## OPTIONAL BODY

| Part #   | Description           |
|----------|-----------------------|
| LOS-1917 | Ford Clear Body: NG   |
| LOS-1918 | Toyota Clear Body: NG |

| Part #   | Description          |
|----------|----------------------|
| LOS-1938 | Chevy Clear Body: NG |

**PLEASE VISIT [HORIZONHOBBY.COM](http://HORIZONHOBBY.COM) FOR ALL AVAILABLE BODY STYLES**



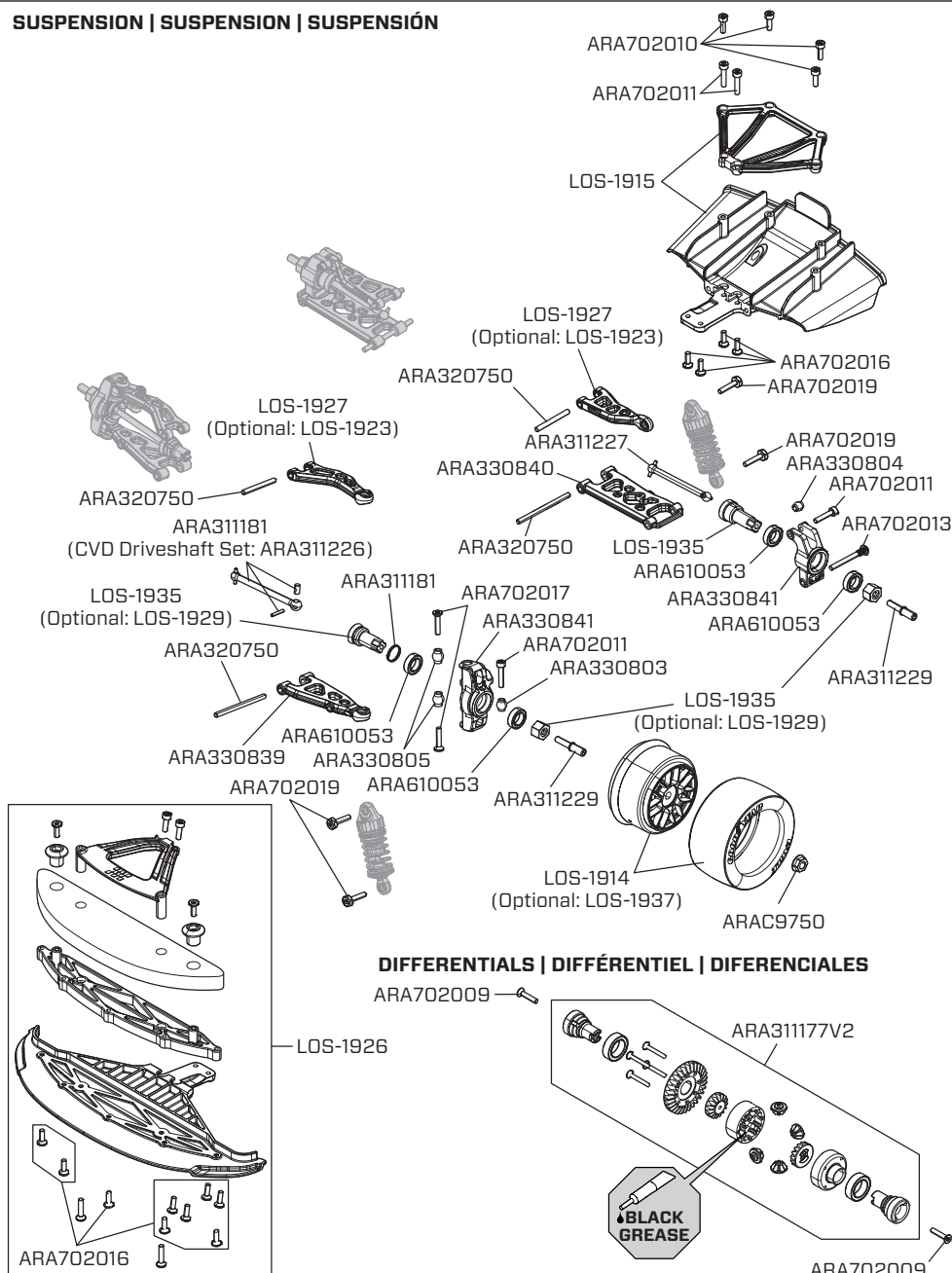
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# 1/12 AWD NASCAR® RC RACECAR

EXPLODED VIEWS // EXPLOSIONSZEICHNUNG //  
VUES ÉCLATÉES // VISTA ESPLOSA // VISTAS EXPLOSIONADAS

## SUSPENSION | SUSPENSION | SUSPENSIÓN



## DIFFERENTIALS | DIFFÉRENTIEL | DIFERENCIALES

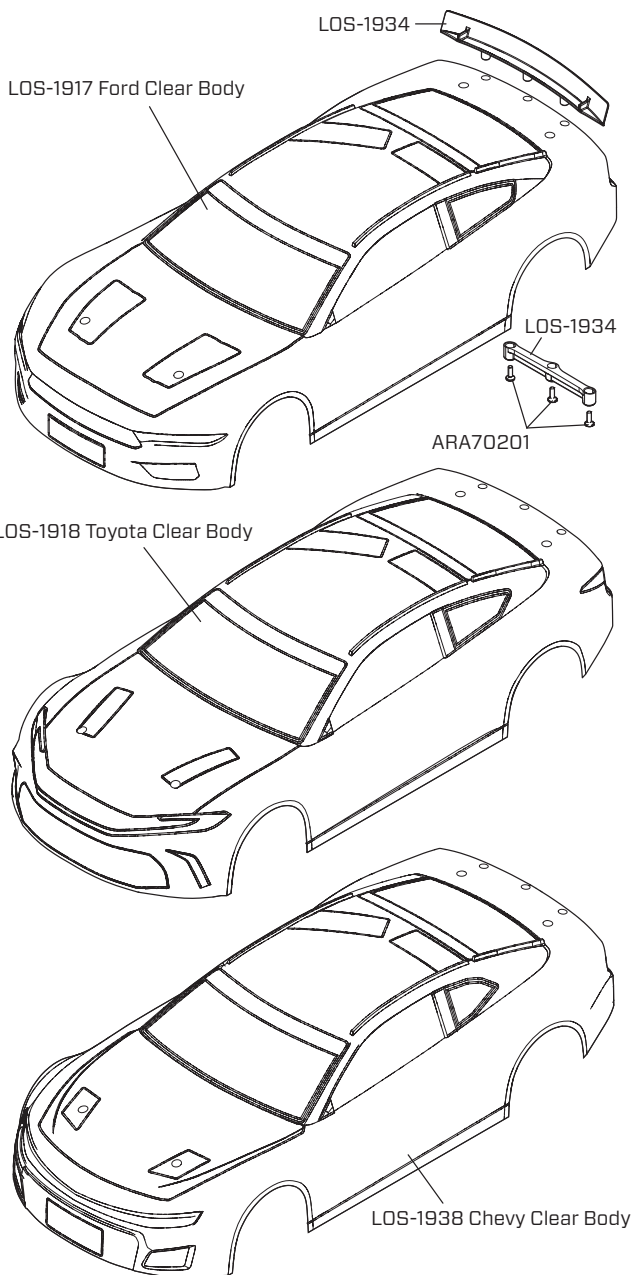
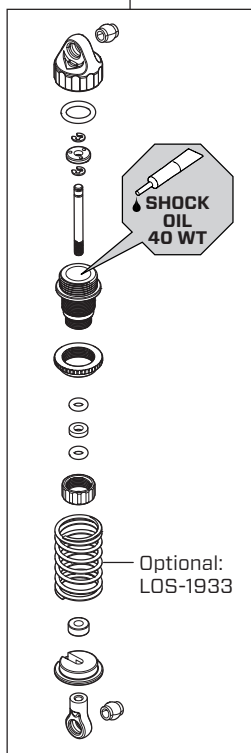


# 1/12 AWD NASCAR® RC RACECAR

EXPLODED VIEWS // EXPLOSIONSZEICHNUNG //  
VUES ÉCLATÉES // VISTA ESPLOSA // VISTAS EXPLOSIONADAS

SHOCKS AND BODIES | AMORTISSEURS ET CARROSSERIES | AMORTIGUADORES Y CARROCERÍAS

LOS-1936 (Optional: LOS-1931)



# 1/12 AWD NASCAR® RC RACECAR

EXPLODED VIEWS // EXPLOSIONSZEICHNUNG //  
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PLEASE VISIT [HORIZONHOBBY.COM](http://HORIZONHOBBY.COM) FOR ALL AVAILABLE BODY STYLES

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TOUS LES MODÈLES DE CARROSSERIE DISPONIBLES

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Other patents pending.

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