



# READY-TO-RUN

## XXX-S SPORT Operation Guide

800-0242

### Introduction

Thank you for choosing the Team Losi XXX-S Sport Sedan. This is a highly developed R/C model that features a computer based radio system, programmable electronic speed control, and 19-turn high performance motor. Although it is an entry-level model, it does require some mechanical experience and/or parental supervision. This guide contains the basic instructions for operating and maintaining your new XXX-S Sport. It is critical that you read all of the instructions in this and all accompanying manuals in order to operate your model correctly and avoid damage. Please take a moment to look them over before running the model. Your hobby dealer cannot, under any circumstances, accept a model for return or exchange that has been run.

### Safety Precautions

This is a sophisticated, high performance radio controlled model, which needs to be operated with caution and common sense. Failure to operate your model in a safe and responsible manner could result in personal and/or property damage. It is your responsibility to see that the instructions are followed and precautions adhered to. The XXX-S Sport is not intended for use by children without direct adult supervision. Team Losi, JR, Novak, Trinity and Horizon Hobby Inc. shall not be liable for any loss or damages, whether direct, indirect, special, incidental, or consequential, arising from use, misuse, or abuse of this product or any product required to operate it.

- Always follow the manufactures instructions for the battery, battery charger, radio and speed controller
- The motor and battery pack will be hot during and after use. Avoid touching either of these until they are allowed to cool.
- It is normal for the battery pack to get slightly warm but not hot while charging. If it does become overheated, disconnect from the charger immediately and let it cool before use.
- Always operate your model in an open area away from cars and people to avoid the potential of injury or damage
- This model is controlled by a radio signal that is subject to interference from sources outside your control. This can cause temporary loss of control so it is advisable to always keep a safety margin in all directions to avoid collisions.
- Never operate your model in standing water or wet conditions as loss of control and damage to the electronics can occur.

### Service Information

**Electronics (Radio/Motor/Speed Controller) - (877) 504-0233 Horizon Hobby Customer Service**  
**Chassis (Anything not electric) - (909) 390-9595 Team Losi Customer Service**

## Required Equipment

You will need the following items to operate your new XXX-S Sport Sedan.

- 8 each “AA” size Alkaline batteries for the transmitter • 7.2 volt rechargeable Ni-Cad battery pack.
- Charger for Ni-Cad batteries.

## Tools You Will Find Handy

In addition to the small tools supplied with this model you will find the following most useful • Needle nose pliers • Hobby knife • Small screw driver • Quality 1/16”, and 3/32” hex (Allen) drivers.

## Normal Service, Cleaning, and Adjustments

**Cleaning:** Performance can be hindered if dirt gets in any of the moving suspension parts. Use compressed air, a soft paint brush and/or toothbrush to remove dust or dirt. Avoid using solvents as this can actually wash dirt into the bearings and areas not accessible without disassembly.

**The Shocks** will need to be serviced when the fluid gets low or dirty. After removing the shocks, unscrew the black plastic cartridge, dump out the fluid and clean thoroughly. Refill with Team Losi certified shock fluid (the model is supplied with 30 weight). Refer to the owners guide for proper filling and bleeding procedure. If the shocks leak fluid around the shaft it is time to replace the cartridges.

**The Differentials** should be serviced when the diff action becomes extremely gritty feeling. After disassembly, clean (or replace if necessary) the balls and drive rings then re-lube with Team Losi diff lube (LOSA3065). Complete assembly instructions are available in the enclosed owners manual.

**Differential Adjustment:** The front and rear differentials should be adjusted prior to the first use out of the box or after a rebuild/service and then again after several battery packs have been run. After this initial break-in period it is only necessary to check it after every hour of operation.

**Checking/Adjusting the Rear Diff:** After removing the gear cover, use your left thumb to hold the spur gear while holding the right side rear tire firmly to work the work surface as shown in Photo #1 of “**Checking/Adjusting the Diffs**”. Now try to turn the left side tire toward the back of the model. It should be very difficult to turn. If not, the diff needs to be adjusted tighter. **Step 1)** locate the slot of the diff adjustment screw in the left side outdrive. This is done by holding the left rear wheel while turning the right tire (Photo #2). **Step 2)** Insert the long side of the 1/16” Allen wrench (included in the accessory bag) through the slot of the outdrive and diff screw so that they are locked together (Photo #3). **Step 3)** While holding the 1/16” Allen wrench in the diff screw and outdrive, turn the right side tire forward tightening the diff about as tight as you would the lid of a jar (Photo #4). **Step 4)** Recheck the diff and tighten again if necessary. **Step 5)** Replace the gear cover before operating.

**Checking/Adjusting the Front Diff:** 1) Use your right forearm to hold the left front tire down to the work surface while holding the spur gear with your right hand as shown in photo #5. Now try to turn the right front tire toward the rear of the model to check the adjustment. The diff adjustment screw is located in the left outdrive as in the rear. Use the same technique and **steps 1-5** outline above to adjust the front diff.

## Warranty and Technical Information

This model and the electronics in it have been factory assembled and thoroughly checked at the time of shipment and as such is only warranted against original factory defects in materials and/or workmanship. Under no circumstances will any of the electronics be considered under warranty that have been disassembled or any part of the model that has been used for a purpose or in a fashion other than it was originally intended or designed.



## Service Information

**Electronics (Radio/Motor/Speed Controller) - (877) 504-0233 Horizon Hobby Customer Service**  
**Chassis (Anything not electric) - (909) 390-9595 Team Losi Customer Service**

**The Team Losi Sport ESC is set from the factory. In the event that you need to reset it, follow the directions below.**

## Product Support

### DO NOT CONTACT NOVAK ELECTRONICS!

All Speed Control Service and support is only available from Horizon Hobby Inc. If you call Novak Electronics, they will direct you to Horizon Hobby. If you require assistance with your speed control, Contact **Horizon Hobby Customer support at 877-504-0233**

## Step 1. Precautions ★ FAILURE TO FOLLOW PRECAUTIONS VOIDS ANY WARRANTY

- **WATER & ELECTRONICS DON'T MIX!** Do not operate model in or around water. Never allow water, moisture or other foreign materials to get inside the ESC.
- **15-TURN MOTOR LIMIT** Use only motors with 15 turns or more. Using motors with fewer than 15 turns will cause overheating and will void the warranty.
- **4 TO 7 CELLS ONLY** Never use fewer than 4, or more than 7 cells (4.8-8.4 volts DC) in the main battery pack.
- **NO REVERSE VOLTAGE!** Reverse battery polarity can damage speed control—Disconnect battery immediately.
- **NO SCHOTTKY DIODES** Using external Schottky diodes with reversible ESCs will damage ESC & void warranty.
- **DISCONNECT BATTERIES WHEN NOT IN USE** Always disconnect battery from ESC when unattended or not in use to avoid possible short circuits. Even if switch is off, MOSFETs may fail & cause shorting of battery pack that could result in fire or burning of ESC & surrounding objects.
- **TURN TRANSMITTER ON FIRST** Turn on transmitter before ESC so you will have control of the radio equipment.
- **INSULATE WIRES** Always insulate exposed wiring with heat shrink tubing or electrical tape to avoid short circuits.

## Step 2. Programming Speed Control

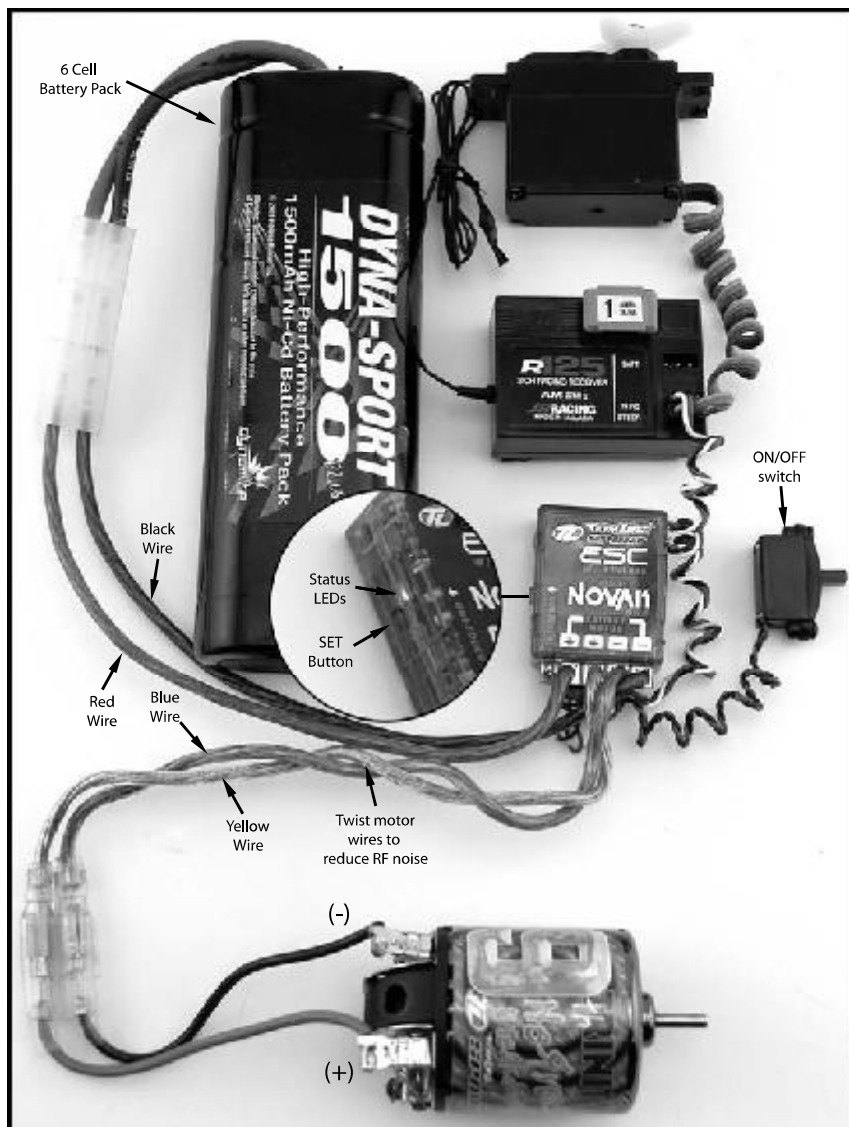
With a charged battery pack installed & plugged into the ESC:

1. **TURN ON THE TRANSMITTER, THEN SPEED CONTROL**
2. **PRESS & HOLD SPEED CONTROL'S SET BUTTON**  
With transmitter throttle at neutral, press and hold the ESC **SET** button until the status **LED turns solid red.**
3. **RELEASE ESC SET BUTTON WHEN LED IS RED**
4. **PULL TRANSMITTER THROTTLE TO FULL-ON POSITION**  
Hold it there until the status **LED turns solid green.**

NOTE: Motor will not run during programming even if connected

5. **PUSH TRANSMITTER THROTTLE TO FULL-REVERSE**  
Hold it there until the status **LED blinks green.**
6. **RETURN TRANSMITTER THROTTLE TO NEUTRAL**  
Status LED will turn solid red, indicating that throttle is at neutral and proper programming has been completed.  
*If transmitter settings are changed, programming must be repeated.*  
*If you experience any problems, turn off ESC and repeat programming.*

The Team Losi Sport Esc features "Smart Braking II" circuitry which gives you full range of braking without going into reverse until you shift it into reverse by returning the trigger to neutral.



## TROUBLE-SHOOTING GUIDE

### Steering Channel Works But Motor Will Not Run

- Speed control has thermally shut down - Allow ESC to cool down - Use milder motor or smaller pinion gear.
- Check motor connections. Check Motor.
- Make sure ESC is plugged into the throttle channel of receiver. Check throttle channel operation with a servo.
- Check wiring color sequence of receiver signal harness. Possible internal damage - Call Customer Service

### Receiver Glitches/Throttle Stutters During Acceleration

- Motor capacitors broken or missing
- Receiver or antenna too close to speed control, power wires, battery, or motor
- Bad connections - Check wiring and connectors
- Motor brushes worn - Replace brushes or motor.
- Excessive motor current - Use milder motor/smaller pinion gear

### Motor and Steering Servo Do Not Work

- Check wires, receiver signal harness wiring & color sequence, radio system, crystals, battery/motor connectors & battery.
- Possible internal damage - Call Customer Service

### Model Runs Slowly/Slow Acceleration

- Check motor and battery connectors - Replace if needed.
- Bad battery or motor - Check with another battery/motor
- Incorrect transmitter/ESC Adjustment - Refer to Step 2.

### Motor Runs Backwards

- Motor wired backwards - Check wiring and reverse

**For technical assistance regarding the Team Losi Sport Speed Controller, call 877-504-0233**

**Do Not Call Novak Electronics**

### XXX-S Trouble Shooting Guide

<u>Problem</u>	<u>Thing to check</u>	<u>Remedy</u>
Short run time	Battery not charged/bad Motor dirty or brushes worn Diff slipping	Check/charge battery pack Clean/replace Check/adjust differential
Sluggish Acceleration	Motor dirty/brushes worn Bind in drive train	Clean/replace Back of motor and check - repair as necessary
Motor/ESC overheated	Allow to cool and retry Over geared	Install smaller pinion gear
Doesn't operate	Transmitter battery Transmitter not on Receiver not on Check ESC & receiver plugs	Check meter & batteries Turn on / check voltage Turn on switch in car
Poor run time	Battery pack charge/plug Diff slipping ESC (Elec. Speed Control) Battery pack	Check plugs, wires, charge Check/adjust diffs Check program instructions Check/replace battery pack
Poor range / Glitches	Transmitter battery low Transmitter antenna loose Battery pack not charged Receiver antenna cut/worn Motor dirty/worn brushes Loose plugs or wires	Check/replace Check/tighten Charge and retry Check, send in for repair Check clean/replace Check all plugs and wires

#### Service Information

Electronics (Radio/Motor/Speed Controller) - (877) 504-0233 Horizon Hobby Customer Service  
Chassis (Anything not electric) - (909) 390-9595 Team Losi Customer Service