

**SPEKTRUM®**

**SR310 Instruction Manual**

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**SR310 Bedienungsanleitung**

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**Manuel d'utilisation SR310**

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**Manuale di istruzioni SR310**

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## 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 [horizonhobby.com](http://horizonhobby.com) and click on the support 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:

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

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

**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.

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



**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 attempt disassembly, use with Incompatible components or augment product in any way without the approval of 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, LLC 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.

**NOTICE:** This product is only intended for use with unmanned, hobby-grade, remote-controlled vehicles and aircraft. Horizon Hobby disclaims all liability outside of the intended purpose and will not provide warranty service related thereto.

### WARRANTY REGISTRATION

Visit [www.community.spektrumrc.com](http://www.community.spektrumrc.com) today to register your product.

# SR310 Instruction Manual

The Spektrum™ SR310 3-channel DSMR™ Sport Surface receiver is compatible with all Spektrum DSMR surface transmitters. The SR310 receiver is NOT compatible with DSM® or DSM2® transmitters.

## Specifications

**Type:** DSMR

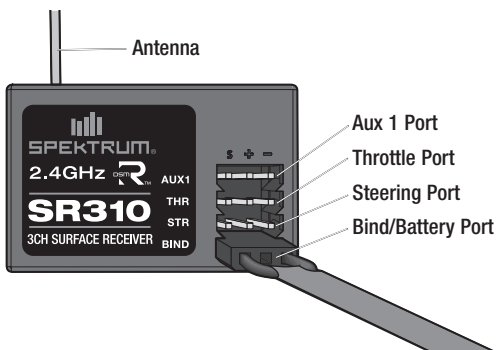
**Dimensions (LxWxH):** 1.4 x 0.9 x 0.6 in (38.5 x 23.6 x 14.3mm)

**Channels:** 3

**Weight:** 0.3 oz (8.8 g)

**Band:** 2.4GHz

**Voltage Range:** 3.2–9.6V



## Receiver Connection and Installation

1. Make sure the receiver location in the vehicle is clean and dry.
2. Remove the paper backing from one side of the double-sided foam tape.
3. Apply the double-sided foam tape to the bottom of the receiver.
4. Remove the second paper backing from the receiver.
5. Place the receiver in the vehicle. Gently press down on the receiver to secure the foam tape.
6. Position the receiver antenna up and away from the receiver. The higher you position the antenna, the better signal it will receive.

**NOTICE:** Do not cut or modify the antenna.

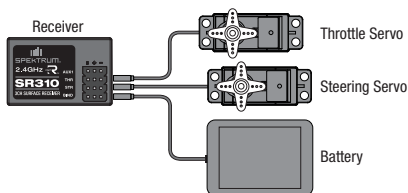
## Failsafe

The throttle failsafe position is set during binding. In the unlikely event that transmitter signal is lost during use, the receiver will drive the the throttle servo to its pre-programmed failsafe position. If you power on the receiver before powering on the transmitter, the receiver enters failsafe mode. Normal control resumes when you power on the transmitter.

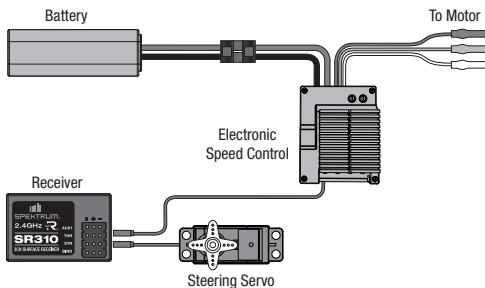


**CAUTION:** Failsafe activates only in the event that signal is lost from the transmitter. Failsafe does NOT activate in the event that the receiver loses battery power.

## Powering the receiver with a separate receiver pack



## Powering the receiver with an ESC



## Binding the Transmitter and Receiver

You must bind the transmitter and receiver before the receiver will operate. During binding, the receiver recognizes the unique ID code in your transmitter. After you bind the transmitter and receiver, the receiver only responds to your transmitter.

## Binding

1. Insert the bind plug into the BIND port on the receiver.
2. Connect a fully charged battery to any open port on the receiver. The battery voltage must be at least 6V (max. 9.6V). The orange LED in the receiver flashes continuously, indicating that the receiver is in bind mode.

### If the vehicle uses an electronic speed control (ESC):

- Connect the ESC to the throttle channel on the receiver.
  - Connect a fully charged vehicle battery to the ESC, then power on the ESC.
3. With the throttle channel in the desired preset failsafe position (Normally full brake), place your transmitter in bind mode. Hold the failsafe position until the binding process is complete.
  4. The orange LED on the receiver turns solid, indicating that the bind process is complete.



**CAUTION:** When the bind process is complete, the throttle and steering channels are active. Keep hands and loose objects away from all spinning parts on the vehicle.

5. Remove the bind plug from the receiver and store it in a convenient place. Failure to remove the bind plug will result in the receiver entering bind mode the next time you power on the receiver.

The only time it is necessary to rebind is if different failsafe positions are desired e.g., servo travel has been reversed after the initial bind, or if you want to use the receiver with a different model memory.

## 2.4GHz Troubleshooting Guide

Problem	Possible Cause	Solution
The system will not connect	Your 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 model memory	Make sure the correct model memory is active in your transmitter
	Your transmitter was placed into bind mode and is no longer bound to your receiver	Rebind your transmitter and receiver

Problem	Possible Cause	Solution
The receiver goes into fail-safe mode a short distance away from the transmitter	Check for damage on the receiver antenna	Make sure your receiver antenna is in an antenna tube and is above the vehicle
		Replace the receiver or contact Horizon Product Support
The 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

## 1-Year 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 1 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.

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 877.504.0233 toll free to speak to 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 insurance 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 Horizon Hobby 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 LiPo batteries to Horizon. If you have any issue with a LiPo 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 ½ 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 Horizon Hobby Service Center.

**NOTICE:** Horizon service is limited to Product compliant in the country of use and ownership. If non-compliant product is received by Horizon for service, it will be returned unserviced at the sole expense of the purchaser.



## Warranty, Service and Customer 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/	4105 Fieldstone Rd Champaign, Illinois, 61822 USA
	Horizon Product Support (Product Technical Assistance)	www.quickbase.com/db/ bghj7ey8c?a=GenNewRecord	
		888-959-2305	
Sales	sales@horizonhobby.com 888-959-2305		
United Kingdom	Service/Parts/Sales: Horizon Hobby Limited	sales@horizonhobby.co.uk  +44 (0) 1279 641 097	Units 1-4, Ployters Rd, Staple Tye, Harlow Essex, CM18 7NS United Kingdom
Germany	Horizon Technischer Service	service@horizonhobby.de	Christian-Junge- Straße 1 25337 Elmshorn, Germany
	Sales: Horizon Hobby GmbH	+49 (0) 4121 2655 100	
France	Service/Parts/Sales: Horizon Hobby SAS	infofrance@horizonhobby.com  +33 (0) 1 60 18 34 90	11 Rue Georges Charpak 77127 Lieusaint, France
China	Service/Parts/Sales: Horizon Hobby – China	info@horizonhobby.com.cn  +86 (021) 5180 9868	Room 506, No. 97 Changshou Rd. Shanghai, China 200060

### FCC Information

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.

This product contains a radio transmitter with wireless technology which has been tested and found to be compliant with the applicable regulations governing a radio transmitter in the 2.400GHz to 2.4835GHz frequency range.

### IC Information

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

# Compliance Information for the European Union

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Declaration of Conformity  
(in accordance with ISO/IEC 17050-1)

No. HH2014072603

Product(s): SR310 DSMR 3-Channel Sport Receiver

Item Number(s): SPMSR310

Equipment class: 1

The object of declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the European R&TTE Directive 1999/5/EC:

**EN 301 489-1 V1.9.2: 2012**

**EN 301 489-17 V2.1.1: 2009**

Signed for and on behalf of:  
Horizon Hobby, LLC  
Champaign, IL USA  
July 26, 2014



Mike Dunne  
Executive Vice President  
Product Divisions  
Horizon Hobby, LLC



## Instructions for Disposal of WEEE by Users in the European Union

This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.



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