



**SR2100 Instruction Manual**

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**SR2100 Bedienungsanleitung**

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**Manuel d'utilisation SR2100**

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**Manuale di istruzioni SR2100**

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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:

**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.

**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.

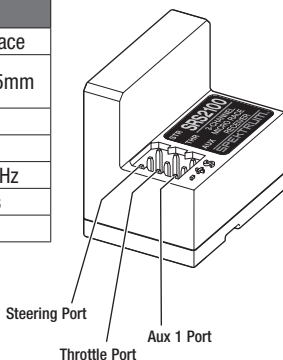
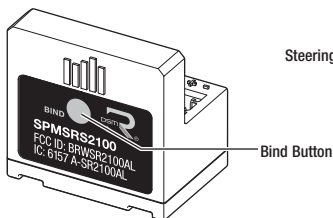
## WARRANTY REGISTRATION

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

# SR2100 Instruction Manual

The Spektrum™ SR2100 3-channel DSMR® Micro Race, Antenna-Less receiver is compatible with all Spektrum DSMR surface transmitters.

| Specifications     | SR2100             |
|--------------------|--------------------|
| Type               | DSMR Micro Race    |
| Dimensions (LxWxH) | 17.6 x 25.5 x 25mm |
| Channels           | 3                  |
| Weight             | 5.5g               |
| Band               | 2404-2476 MHz      |
| Frame rate         | 11ms-5.5ms         |
| Voltage Range      | 3.5–9V             |



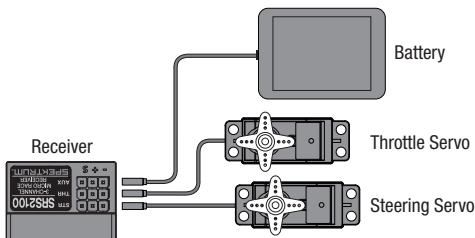
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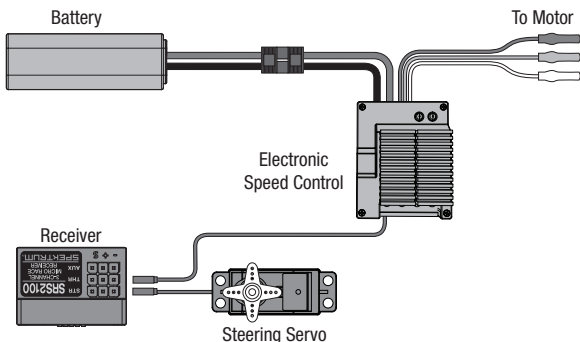
# Receiver Installation and Setup

The Spektrum SR2100's micro size and lack of antenna, allows for easy installations. Simply install the receiver in your vehicle using double-sided foam servo tape.

## Powering the receiver with a separate receiver pack



## Powering the receiver with an ESC



## 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 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.

# Binding Receiver to Transmitter

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In order to operate, the receiver must be bound to the transmitter. Binding is the process of programming the receiver to recognize the GUID (Globally Unique Identifier) code of a single specific transmitter. When a receiver is bound to a transmitter/model memory, the receiver will only respond to that specific transmitter/model memory.

## Binding

1. Push and hold the bind button on the receiver while powering up the receiver. The orange LED will flash continuously, indicating that the receiver is in bind mode.
2. With all channels in the desired preset failsafe position (normally neutral), put your transmitter in bind mode. Continue holding the failsafe position until the binding process is complete.
3. The bind process is complete when the orange LED on the receiver is solid.



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

You must rebind the transmitter and receiver if you:

- Change the servo reverse after binding
- Want to use the receiver with a different model memory
- Are using the receiver with a DSMR transmitter and you change the frame rate in the transmitter

## Aux channel

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The Aux channel can operate as extra servo channel, or as a power supply for a personal transponder.

- If 5.5ms frame rate is selected in the transmitter, only two channels, Steering and Throttle, are operational. The Aux channel can be used to power a personal transponder, a fan or lights.
- If a frame rate other than 5.5ms is selected, the Aux channel will operate as extra servo channel.
- A Y-harness (SPM1516) may be used to operate two auxiliary items from one servo port.

**IMPORTANT:** You must re-bind any time you change the frame rate in the transmitter.

**IMPORTANT:** The DX4R Pro DX5R, Dx5 Pro or DX6R are required for 5.5ms frame rate.

# Troubleshooting Guide

| Problem                                                                         | Possible Cause                                                                                                                                     | Solution                                                                                                   |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| The system will not connect                                                     | 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                                                                       |
| The receiver goes into failsafe mode a short distance away from the transmitter | The antenna inside the receiver case could become damaged if the receiver is damaged                                                               | Inspect the receiver for damage                                                                            |
|                                                                                 |                                                                                                                                                    | 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 year 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, (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 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 [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 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 [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<br>(Repairs and Repair Requests)   | servicecenter.horizonhobby.com/RequestForm/      | 4105 Fieldstone Rd<br>Champaign, Illinois,<br>61822 USA |
|                          | Horizon Product Support<br>(Product Technical Assistance) | productsupport@horizonhobby.com.<br>877-504-0233 |                                                         |
|                          | Sales                                                     | websales@horizonhobby.com<br>800-338-4639        |                                                         |
|                          |                                                           |                                                  |                                                         |
| EU                       | Horizon Technischer Service                               | service@horizonhobby.de                          | Hanskampring 9<br>D 22885 Barsbüttel,<br>Germany        |
|                          | Sales: Horizon Hobby GmbH                                 | +49 (0) 4121 2655 100                            |                                                         |

## FCC Information

### FCC ID: BRWSR2100AL

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 to 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.

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.

**NOTICE:** Modifications to this product will void the user's authority to operate this 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.

### Antenna Separation Distance

When operating your Horizon Hobby product, please be sure to maintain a separation distance of at least 20 cm between your body (excluding fingers, hands, wrists, ankles and feet) and the antenna to meet RF exposure safety requirements as determined by FCC regulations.

## IC Information

### IC: 6157A-SR2100AL

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.

## EU Compliance Statement:

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### EU Compliance Statement:



Horizon Hobby, LLC hereby declares that this product is in compliance with the essential requirements and other relevant provisions of the RED Directive.

A copy of the EU Declaration of Conformity is available online at:  
<http://www.horizonhobby.com/content/support-render-compliance>.

### 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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