



# SPEKTRUM SPMXSE2425RX 2-in-1 1-24 10 Amp ESC Plus SLT Rx Combo Instruction Manual

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## SPMXSE2425RX 2-in-1 1-24 10 Amp ESC Plus SLT Rx Combo

### Instruction Manual

#### 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) or [towerhobbies.com](http://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 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.

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

**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.

## Specifications

**Continuous current** 10A

**Receiver Frequency** 2.4G (SLT2)

**LiPo/NiMH Cells** 2S Lipo

**BEC output** 1A /5V (Switch Mode)

**Battery Connector** PH 2.0

**Motor Connectors** PH 2.0

**Dimensions** 33 x 33 x 15mm

**Compatible Motors** DYNS1217

**Running Mode** Fwd/Rev/Br or Fwd/Rev

## Features

- Steering
- CH3 (available if using SLT3™ Transmitter)
- Selector for battery (LiPo or NiMH)

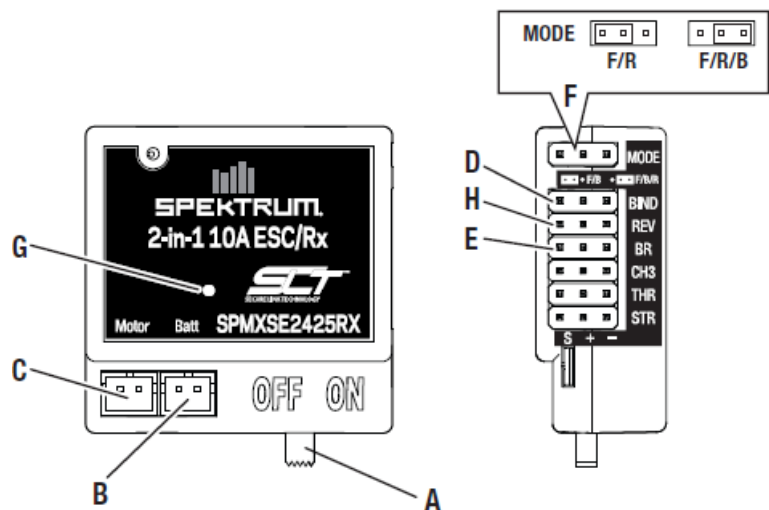
## Components

- A) ON/OFF Switch
- B) +/- Battery connector, range 5-8.4V.
- C) M+/M- Motor connector. Max current 10A
- D) Bind Port
- E) Brake light connection
- F) Running mode selection
- G) LED
- H) Reverse light connection

## Factory Settings

Battery Type: LiPo

Running Mode: Fwd/Rev/Br



## Binding

1. Make sure the vehicle is secure with vehicle's wheels off the ground.
2. Insert the bind plug into the bind slot on the esc/rx.
3. Power on the vehicle. The LED light will flash rapidly.
4. Power on SLT2 transmitter to bind to the vehicle. The LED light will stay ON when bound. If binding fails LED will turn OFF.
5. Once bound, remove the bind plug before operation.

Note: If using external receiver, follow bind instructions for that product.

## Drag Brake Settings

When the ESC is powered ON the drag brake setting can be set using the jumper cap. The factory drag brake setting is 0%. The ESC has 5 levels of drag brake settings 0%(default)/25%/50%/75%/100.

### Change the drag brake setting by following these steps:

1. Power on ESC and ensure the ESC is ON and in "Fwd/Rev" mode.
2. Remove "F/R" jumper cap and plug it back into the same location, this will add drag break strength level by one level.
3. The ESC LED blinks to indicate strength level (1 blink=level 1, 2 blinks =level 2, and so on)
4. When desired drag brake setting is achieved leave jumper cap in position to save setting.

## Alarms

### Low Voltage Warning

The Low Voltage Warning feature is built into the receiver.

LiPo

When voltage goes below 6.4V protection mode is activated and motor power is cut to 50%. Once the battery voltage drops below 6V the car will stop.

## LED Indicators

Solid LED: Fully charged battery and receiver is bound to transmitter.

LED is OFF: Battery is dead or receiver is not bound to transmitter.

LED slow flash: battery voltage is low.

LED rapid flash: ESC is in bind mode.

## Fail Safe

Built in Fail Safe feature: When the receiver stops communication with transmitter, the ESC will stop throttle output. Steering output will maintain the latest position.

## ESC Troubleshooting

Problem	Possible Cause	Solution
No LED lights up after ESC is Powered ON	No power is drawn to the ESC; The switch is broken	Check the connections between battery and ESC; Re-solder the connector if needed; Replace the ESC switch
LED OFF	The transmitter is OFF; The transmitter is not bound to ESC	Turn ON the transmitter; Re-Bind the transmitter to the ESC.
LED blinks once a second	Battery voltage is low.	Change battery
The vehicle runs backwards when accelerating forward on the transmitter	The direction setting of the throttle channel is incorrect in the transmitter or the motor wires are connected incorrectly	Reverse the direction of the throttle channel; Swap the wires between the ESC and motor.
The vehicle doesn't reach full speed.	Incorrect TH D/R setting	Increase TH D/R
	Low voltage battery protection preventing full speed	Install a fully charged battery
The vehicle doesn't move but the LED indicators work normally	Low voltage battery protection preventing vehicle movement	Install a fully charged battery
	The connection between ESC and motor is interrupted	Check the connection between the motor and ESC
	The motor is damaged	Install a new motor
The motor accelerates rapidly at the startup, but has lockout or cogging problem.	The discharge capacity of the battery is not strong enough	Replace battery with a battery with a larger discharge capability
	The motor rotates too fast, and the gear ratio is too large	Use a motor with lower RPM, or smaller pinion to lower the gear ratio
	Something is wrong with the driveline of the vehicle.	Check the driveline of the vehicle

## 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.

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. Champaign, Illinois 61822 USA
	Horizon Product Support (Product Technical Assistance)	productsupport@horizonhobby.com.	
		877-504-0233	
	Sales	websales@horizonhobby.com	
		800-338-4639	
European Union	Horizon Technischer Service	service@horizonhobby.de	Hanskampring 9 D 22885 Barsbüttel, Germany
	Sales: Horizon Hobby GmbH	+49 (0) 4121 2655 100	

## FCC Information

Supplier's Declaration of Conformity  
2-in-1 ESC + SLT Rx Combo  
(SPMXSE2525RX)

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)  
2-in-1 ESC + SLT Rx Combo  
(SPMXSE2525RX)

This device contains license-exempt transmitter(s)/receivers(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:

2-in-1 ESC + SLT Rx Combo

(SPMXSE2425RX); Hereby, Horizon Hobby, LLC declares that the device is in compliance with the following:

2014/30/EU EMC Directive; 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>.

### 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.

## Documents / Resources



[SPEKTRUM SPMXSE2425RX 2-in-1 1-24 10 Amp ESC Plus SLT Rx Combo](#) [pdf] Instruction Manual

SPMXSE2425RX 2-in-1 1-24 10 Amp ESC Plus SLT Rx Combo, SPMXSE2425RX, 2-in-1 1-24 10 Amp ESC Plus SLT Rx Combo, Amp ESC Plus SLT Rx Combo, Plus SLT Rx Combo, SLT Rx Combo, Combo



## References

- [!\[\]\(1207edb9a08751d3d55970560645ed23\_img.jpg\) RC Airplanes and Helicopters, RC Cars and Trucks, RC Boats, RC Radios | Horizon Hobby](#)
- [!\[\]\(d7a34a706cfa4ef37c62a369101e1b36\_img.jpg\) Ferngesteuerte Flugmodelle, Autos, Trucks, Hubschrauber, Boote und Fernsteuerungen | Horizon Hobby](#)
- [!\[\]\(7325769475e8f4bf67f57a0cbebc8ab9\_img.jpg\) Product Service Center - Request Form](#)
- [!\[\]\(1a468f12cdfc63dc07896d0781cf55ec\_img.jpg\) RC Cars, RC Trucks, RC Airplanes, Model Trains, and Slot Cars at Tower Hobbies](#)
- [!\[\]\(a9a0baec8ceb7d7c04180806eca8d32a\_img.jpg\) RC Airplanes and Helicopters, RC Cars and Trucks, RC Boats, RC Radios | Horizon Hobby](#)
- [!\[\]\(c1ab807d6aebb565b3082513037b5622\_img.jpg\) RC Airplanes and Helicopters, RC Cars and Trucks, RC Boats, RC Radios | Horizon Hobby](#)
- [!\[\]\(083bb479299cb5e55cd99db0433ca6ba\_img.jpg\) RC Airplanes and Helicopters, RC Cars and Trucks, RC Boats, RC Radios | Horizon Hobby](#)
- [!\[\]\(ede41f318336daae6cce8449321d11ea\_img.jpg\) RC Cars, RC Trucks, RC Airplanes, Model Trains, and Slot Cars at Tower Hobbies](#)
- [!\[\]\(b0cd9d88e5935e4c3891570bfdded05c\_img.jpg\) RC Airplanes and Helicopters, RC Cars and Trucks, RC Boats, RC Radios | Horizon Hobby](#)
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Manuals+.