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Spektrum dx3 setup

• 2009 Horizon Hobby, Inc. publishes a DSM Racing System for three channels and four models. • Horizon Hobby UK has units at Ployters Rd in Staple Tye, Harlow, Essex CM18 7NS. • DSM is trademarked by Horizon Hobby, while DSM2 is trademarked as well. • Spektrum radios and accessories are available exclusively from Horizon Hobby, Inc. • US patent number is 7,391,320; other patents are pending. • Publication of the DSM Racing System's setup guide has been revised. 1. Setting Up the Display 2. Entering System Mode and Model Selection 3. Navigating through Mode Options 4. Adjusting Frame Rate and Auxiliary Channel 3 Function 5. Customizing Grip Button C Settings 6. Resetting Data 7. Copying Model Data and Switching to RF Mode 1. STG 2. BRK/Auxiliary Channel 3 Access 3. Auxiliary Channel 3 Access (Fuel Mixture) 4. Auxiliary Channel 3 (Transmission Shift Selector) 5. Warranty and Service Information 6. FCC Information 7. CE Compliance Information for the European Union 8. Introduction DX3.0 Quick Start Setup The DX3.0 radio system is a reliable 2.4GHz spread spectrum system designed for RC racers. The DSM system ensures clear communication and minimizes interference. This manual provides detailed instructions for programming and setting up the system. Before operating your DX3.0 system, carefully read this manual to ensure a smooth setup process. For those who want to get to the track quickly with just the basic radio setup, refer to the Quick Start section below. To bind the receiver to a transmitter, follow these steps: 1. Turn off the transmitter and receiver. 2. Insert the bind plug into the BIND port on the receiver. 3. Power the receiver through any port. 4. Hold down on the SCROLL and CHANNEL buttons while turning on the transmitter. 5. Press the INCREASE and DECREASE buttons at the same time to enter bind mode. Refer to pages 35-39 for warranty and service information, including FCC compliance and CE compliance for the European Union. With successful binding, the system automatically connects. Before powering off the receiver, remove and store the bind plug in a convenient location to prevent re-binding. The new system eradicates issues associated with radio interference from model-generated noise, a common problem when using 27 and 75MHz radios. This system utilizes Direct Sequencing Spread Spectrum modulation to generate a broad signal within a single frequency band. The FCC mandates that these systems incorporate collision avoidance features, which enable the device to scan for an unused channel in the 2.4GHz spectrum before transmitting. Upon initial setup, receivers must be bound to transmitters to program them to distinguish between corresponding devices and others. This binding process also transfers failsafe positions from the transmitter to the receiver. It's essential to bind the receiver during its first installation or when moving it to a new vehicle, although receivers can be re-bound multiple times. Only bound transmitters and receivers can establish a connection. During power-up, the transmitter searches for an open channel while the receiver looks for its paired transmitter. Successful binding results in the receiver's LED remaining constantly on. The binding process involves: 1. Entering System Mode by holding down the SCROLL and CHANNEL buttons during transmitter startup. 2. Pressing the INCREASE and DECREASE buttons simultaneously to enter bind mode, indicated by "BND" flashing on the screen. 3. Once the binding process is complete, the LED will solidify, signifying a successful connection. After binding, remove the bind plug from the receiver before powering it down to avoid re-entering bind mode. The receiver's antenna is significantly shorter than conventional ones at 3.6 inches in length and should be mounted vertically for optimal performance. In cases where range isn't compromised, the antenna can be installed inside the vehicle body as recommended by the manufacturer. In rare instances of lost connections during use, the receiver will drive servos to their preset failsafe positions. If the receiver is powered on before the transmitter, it enters failsafe mode and drives the servos accordingly. Once the transmitter is turned on, normal control is restored. To bind a Spektrum transmitter to a receiver, follow these steps: 1. Ensure both the transmitter and receiver are turned off. 2. With the receiver off, insert the binding plug into the BIND port on the receiver. 3. Power the receiver through any available port. It's essential to ensure proper power system components, including the receiver, battery, pack, and connectors, to avoid control failures. The minimum operational voltage for Spektrum receivers is 3.5 volts. To verify the power system's integrity, use a voltmeter to monitor the voltage when loading servos or applying pressure to the vehicle. Additionally, here are some tips on using Spektrum systems: * The DSM2.4GHz Spread Spectrum Modulation offers improved range and compatibility with various receivers. * Features include three channels, an easy-to-read LCD display, four-model memory, electronic digital trim levers for throttle and steering, and two assignable electronic grip switches. * To optimize system performance, follow the recommended installation guidelines, which may involve adjusting antenna placement and routing. Common questions from customers: * When turning on the transmitter or receiver first? * How to maintain optimal range in the vehicle? Overall, following proper binding procedures, ensuring a reliable power system, and utilizing features like DSM2.4GHz Spread Spectrum Modulation can enhance the performance and functionality of your Spektrum system. When turning on either the transmitter or receiver first, the system will establish a connection within 2-6 seconds. This process involves scanning for an open channel and verifying the Globally Unique Identifier (GUID) code stored during binding. However, if the environment is unfavourable due to proximity to metal objects or inadequate battery power, connection may take longer or fail altogether. In such cases, repositioning the system or retrying after powering off and on can resolve the issue. Additionally, it's essential to note that DSM receivers operate within a 3.5-9.6 volt voltage range. While most systems can function within this range, using high-current draw servos with an inadequate battery power source may cause the system to brown out if the voltage drops below 3.5 volts. This highlights the importance of selecting suitable power sources and configuring servos accordingly. In rare cases, a receiver may lose its bind due to external interference or other unforeseen circumstances. However, this is typically not the result of an internal failure but rather a lost connection. The receiver can be rebounded with the transmitter, ensuring that they are once again paired and operational. The receiver has been disengaged from the transmitter. To ensure safe and reliable operation of your RC model, please carefully read and follow these guidelines. Firstly, remember that radio control models are not toys but can cause serious harm to people and property if mishandled. Always exercise caution when operating your model. You are personally responsible for the safe operation of your RC model. Proper installation, testing, and operation are crucial, along with a clear understanding of your responsibilities. Never take unnecessary risks that could put yourself or others in danger. When using your RC car, avoid running it on streets where full-size automobiles operate. Instead, find designated areas such as RC tracks or clubs in your vicinity by consulting local hobby shops. For RC boat operations, keep the model away from swimmers, full-size boats, and wildlife. Also, be mindful of fishing lines that can get tangled with the propeller. If you notice any abnormal functioning while operating your model, immediately cease operation until the issue is resolved. It's crucial to maintain sufficient voltage in both the transmitter and receiver for control to function properly. Weak batteries can significantly reduce your range of operation. Adjustable steering tension is located beneath the steering wheel (see page 11). Increasing this tension improves steering responsiveness. The manual also covers specific features such as the Multidata LCD Display, Antenna Throttle Trigger Grip Button C, and Electronic Digital Steering Trim Lever. Horizon Hobby, LLC reserves the right to modify instructions, warranties, and other documentation at any time. For the most up-to-date information, visit horizonhobby.com and access support for this product under the "Support" tab. The manual defines different levels of potential harm associated with operating this product using terms like "WARNING," which indicates procedures that can cause severe consequences if not followed correctly. Given article text here The antenna needs to be positioned as high up as possible inside the vehicle and not in the shadow of any carbon fiber or metal. Only the last inch of the antenna is active, so it can be installed without worrying about the coaxial part. The receiver's case can fit an antenna tube directly, making placement easy. To install the receiver, follow the manufacturer's recommended position for the vehicle. Use double-sided tape or foam to secure it in place if needed. In case of signal loss, SmartSafe technology will move the throttle channel to its designated failsafe position (low throttle) while other channels hold their last position. When the receiver detects a signal from the transmitter again, normal operation resumes. For gas-powered vehicles, preset failsafe is recommended. This means all channels will go to their preset failsafe positions if the signal is lost, preventing an out-of-control situation. When the receiver detects a signal from the transmitter again, normal operation resumes. To test failsafe, secure the vehicle with the wheels off the ground and turn off the transmitter. Note how the receiver responds. The SR215, SR315, and SR515 receivers must be bound to the transmitter before they can operate. Binding is the process of teaching the receiver the specific code of the transmitter so it will only connect to that specific transmitter. Failsafe position is set during binding. Inadequate power systems have become the number one cause of control failures. The receiver's battery pack, ESC's capability to deliver current, switch harness, and other components can affect the ability to properly deliver adequate power. The SR215, SR315, and SR515 receivers require a minimum operational voltage of 3.5V. If using a questionable power system (e.g., small or old battery, ESC without BEC that supports high-current draw), use a voltmeter to perform tests as recommended by the guidelines. This tool is specifically designed for performing a certain test. To use it, simply plug it into an open channel port in the receiver and turn on the system, or you can also monitor the voltage using a telemetry capable transmitter. Next, apply gentle pressure to the wheels to put a steering load on the servo while keeping an eye on the voltage at the receiver. Ideally, the voltage should remain above 3.5V even when all servos are heavily loaded. The product's warranty covers defects in materials and workmanship for one year from the date of purchase. However, cosmetic damage, damage caused by acts of God or accidents, misuse, commercial use, or improper installation, operation, or maintenance are not covered. Additionally, any modifications made to the product, attempted service by unauthorized personnel, non-compliant products, or use that violates laws and regulations will also be excluded. Horizon makes no other warranty aside from this express one and disclaims all implied warranties, including those of non-infringement, merchantability, and fitness for a particular purpose. The purchaser acknowledges sole responsibility for ensuring the product meets their intended use requirements. In case of any defects, Horizon's obligation is to either repair or replace the product at its discretion, and proof of purchase is required for all warranty claims. Service or replacement decisions are also at Horizon's sole discretion. You have certain legal rights, and other state-specific rights may also apply. Horizon reserves the right to change or alter its warranty at any time without prior notice. WARRANTY SERVICES If you need assistance with your product, do not contact your local hobby store or place of purchase. Once you've started using the product, reach out to your local distributor or Horizon directly for support. This will help us better address your questions and provide service as needed. You can submit a Product Support Inquiry on our website at www.horizonhobby.com or call the toll-free number listed in the Warranty and Service Contact Information section to speak with a representative. If your product requires inspection or servicing, please follow these steps: 1. Visit our website and use the Horizon Online Service Request submission process found on . 2. If you don't have internet access, contact Horizon Product Support to obtain a Return Merchandise Authorization (RMA) number along with instructions for submitting your product. When shipping your product, use a carrier that provides tracking and insurance for lost or damaged parcels. Include your RMA number, a list of included items, and a brief summary of the problem in your shipment. A copy of your original sales receipt must be attached for warranty consideration. NOTICE: Do not send LiPo batteries to Horizon. If you have an issue with a LiPo battery, contact the relevant Horizon Product Support office. Warranty Requirements To receive warranty service, include your original sales receipt verifying the proof-of-purchase date. If warranty conditions are met, your product will be serviced or replaced free of charge. Service decisions are at Horizon's discretion. Non-Warranty Service If your service is not covered by warranty, payment will be required without notice or estimate of expense unless the cost exceeds 50% of the retail purchase price. By submitting your item for service, you agree to pay for the service without prior notification. You can request a service estimate, and non-warranty estimates will be billed at a minimum of ½ hour labor charge. The Horizon Hobby service center accepts various payment methods, including money orders and cashier's checks, as well as major credit cards. However, customers are responsible for ensuring that the item being serviced is compliant with local laws and regulations. If a non-compliant product is received, it will not be serviced, and the sender will need to arrange return shipment at their expense. Horizon Hobby has a limited service center in the United States, and customers can contact them via phone or online form for assistance. For European customers, there are separate contact details available on the Horizon Hobby website. Additionally, customers must comply with EU regulations regarding waste disposal of electronic equipment. It is the user's responsibility to dispose of their waste equipment through designated collection points to conserve natural resources and protect human health. It is also important to note that certain products, such as the CAN ICES-3 (B)/NMB-3(B)IC:, may generate radio frequency energy and potentially cause interference with radio communications. To minimize this risk, customers can try adjusting their antenna or increasing the separation between the equipment and receiver. ### This device meets the specifications set by Industry Canada for licence-exempt RSS standards.It must operate under two main conditions: firstly, it cannot generate interference that disrupts other devices; secondly, it is required to accept any interference that may occur, including instances where it could affect its performance.Page 11 The information and materials presented on this page are copyrighted by Horizon Hobby, LLC in 2018.Their trademarks, such as DSM, DSM2, DSMR, Hangar 9, QuickConnect, ModelMatch, SmartSafe, and the company logo, are registered or owned by them.Horizon Hobby has permission to use the Spektrum trademark from Bachmann Industries, Inc. 59140This information was created on October 18th under SPMSR215, SPMSR315, and SPMSR515.

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