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INTRODUCTION

Spektrum’s DX3E 3-channel radio system features servo reversing and independent travel adjustment on all three channels. In addition the third channel can be programmed as a linear (proportional), 2-position or 3-position channel making it ideal for vehicles with reverse, 2- or 3-speed transmissions or mixture control. The DX3E incorporates Spektrum DSM 2.4GHz technology offering a bulletproof radio link that’s immune to internal (noisy motors/ ESCs, etc.) and external interfering sources. No longer will you have to wait for a frequency or worry about someone else being on the same channel. With Spektrum, when you’re ready to race there’s nothing stopping you!

CONTENTS

The DX3E radio system is supplied with the following:
- DX3E transmitter
- SR300 receiver (SPMSR300)
- 1 S200 servo (SPMS200)
- Bind plug (SPM6802)
- 4 AA alkaline batteries
- 4-cell AA battery holder
- Switch harness

SYSTEM FEATURES

- Dual Rate steering adjustment
- Steering trim
- Throttle trim
- LED battery indicator
- Servo reversing
- Travel adjust
- Selectable linear, 2-position and 3-position Aux channel
IDENifying controls, dials and switches

Top Panel

- Reverse Switch Steering
- Reverse Switch Throttle
- Reverse Switch Auxiliary
- Auxiliary Setting Switch
- Travel Adjust Steering Left
- Travel Adjust Steering Right
- Travel Adjust Throttle Forward
- Travel Adjust Throttle Reverse
- Travel Adjust Aux Low
- Travel Adjust Aux High

- Antenna
- Battery Indicator
- On/Off Switch
- Aux. Switch
- Bind Indicator
- Throttle Trim Dial
- Battery Door (on bottom)
- Steering Rate Dial
- Throttle Trigger
- Charge Jack (on back)
- Battery Indicator
- Steering Trim Dial
- Battery Indicator
- Steering Wheel
- Battery Indicator
- Steering Rate Dial
- Throttle Trigger
- Charge Jack (on back)
INSTALLING THE BATTERIES

The DX3E radio system is supplied with 4 AA alkaline batteries required for operation that provide over 16 hours of run time. Many drivers prefer alkaline batteries over rechargeable batteries finding it more convenient to simply replace the batteries when depleted rather than taking the time to recharge.

To install the batteries:

Remove the battery door and install 4 AA batteries observing the polarity marked on the battery holder.

Replace the battery door.

USING RECHARGEABLE BATTERIES

Optional NiMH 1.2-volt AA rechargeable batteries (SPM9525) can also be used. If rechargeable batteries are used, they can be conveniently charged without removing them from the transmitter by using the charge jack located on the back side of the transmitter’s base.

Use Spektrum’s charger (SPM9526) to charge rechargeable batteries in the DX3E.

**IMPORTANT:** All Spektrum charge jacks are center-pin negative. This is opposite of many chargers. Before using a charger, make sure the connector is center-pin negative. This can be done using a voltmeter. Also, unlike conventional radio systems that use 8 cells to power the transmitter, the DX3E uses 4 cells. This is due to the electronics being more efficient. When charging, be sure to use a charger designed for 4 cells (a 4.8-volt battery pack) when charging the transmitter. Many drivers simply make a harness and use the same charger used to charge their car packs but turn the current rate down to 1 to 2 amps.

**Warning:** Charge only rechargeable batteries. Non-rechargeable batteries may burst causing injury to persons and/or damage to property.
BATTERY LED MONITOR

A green LED battery monitor is located on the front left of the transmitter next to the on/off switch. When the battery voltage is above 5 volts the LED will be solid green indicating that the battery has sufficient operational voltage. Below 5 volts the green LED will begin to dim, indicating the battery is low. When the voltage drops below 4 volts, the green LED will turn off and only the red LED will be lit, indicating the batteries should be replaced immediately.

- **Solid Green** - Battery is good
- **Dim Green** - Battery voltage is low
- **No Green, only Solid Red** - Battery voltage is critically low. Replace batteries

OPTIONAL RUBBER GRIPS

The DX3E is supplied with a medium-size grip installed on the transmitter. Optional small and large grips are available (SPM9006) to fit preferences and hand sizes. Each grip's size is identified with an “S” (small), “M” (medium), or “L” (large) on the inside of the grip for easy identification. To remove, simply lift the edge of the grip and continue around the grip until it is completely removed. To replace, align the tabs of the grip to the slots in the handle and press the grip in place.

RECEIVER COMPATIBILITY

The DX3E features DSM technology and is compatible with Spektrum DSM and DSM2 surface receivers and the marine receiver.

COMPATIBLE SPEKTRUM RECEIVERS

The DX3E is compatible with the following receivers.

- **DSM**
  - SR300 - 3-channel Sport - SPMSR300
  - SR3001 - 3-channel Pro - SPM1205
  - SR3300T - 3-channel with built-in telemetry - SPMSR3300T
  - SR3500 - 3-channel Micro Race - SPM1210
  
  **Note:** The SR3000HRS (SPM1202) receiver is designed to be used with Spektrum’s Futaba HRS compatible module system only and is not compatible with the DX3E.

- **DSM2**
  - SR3100 - 3-channel Pro - SPMSR3100
  - SR3520 - 3-channel Micro Pro - SPMSR3520

- **Marine**
  - MR3000 - 3-channel Marine - SPMMR3000

Please note that DSM2 and marine compatible transmitters can be identified by the following logo located on the back of the transmitter:
## RECEIVER CONNECTION AND INSTALLATION

### Typical Electric Installation

1. With the receiver off insert the bind plug into the BND port on the receiver.
2. Power the receiver through any other port. The amber LED will flash continuously, indicating the receiver is in bind mode.
3. With the steering wheel, throttle trigger and Aux channel (if applicable) in the desired preset failsafe positions, press and hold the bind button and turn on the transmitter. The red LED on the front of the transmitter will flash within a couple seconds indicating the transmitter is in bind mode. Once the red LED begins flashing, release the bind button.
4. Within 15 seconds, the LED on the receiver will go solid indicating a successful bind has taken place.
5. Remove the bind plug and store it in a convenient place.

### Typical Gas Installation

- **Note:** You must rebind when:
  - Different failsafe positions are desired, e.g. when throttle or steering reversing has been changed.
  - Changing receiver types, e.g. changing from a DSM receiver to a DSM2 or Marine receiver.
  - The receiver is to be bound to a different transmitter.

- **Note:** Some Spektrum receivers, like the SR3000, use a bind button rather than a bind plug. The binding process is the same with this receiver; however, instead of inserting the plug before powering up the receiver, press and hold the bind button while powering up the receiver to enter bind mode.
FAILSAFE

Failsafe positions are also set during binding. In the unlikely event that the radio link is lost during use, the receiver will drive the servos to their preprogrammed failsafe positions (normally full brakes and straight steering). If the SR300 receiver is turned on prior to turning on the transmitter, the receiver will enter the failsafe mode, driving the servos to their preset failsafe positions. When the transmitter is turned on, normal control is resumed. Failsafe servo positions are set during binding (see Bind on the previous page).

SERVO REVERSING

Servo reversing is used to reverse the direction of the output of each channel. (e.g., a right steering command results in the wheels turning right). To reverse a channel, switch the position of the correlating switch. “N” is for normal. “R” is for reverse. A small screwdriver can be used to move the switch if necessary.
AUXILIARY SETTINGS LINEAR, 2-POSITION, 3-POSITION

The Auxiliary channel can be selected to operate in three different methods:

2-Position (2P) - The servo travels to its opposite endpoints when the auxiliary button is pressed. Ideal for forward and reverse transmissions and some two speed transmissions.

3-Position (3P) - The servo travels from endpoint to center to the opposite endpoint when the auxiliary button is pressed. Used for forward, neutral and reverse transmissions and some 3-speed transmissions.

Linear (LIN) - This allows the servo position to be controlled proportionately. Ideal for mixture control on engines.

Note that the servo reversing and travel adjust functions are used to adjust the endpoints and direction of the auxiliary channel.

TRAVEL ADJUST

Travel adjust is used to limit the maximum travel that each channel will travel in each direction. Travel adjust is independently adjustable in each direction. To reduce the maximum travel in each direction, use your finger or a small screwdriver to rotate the corresponding travel adjust dial counterclockwise. To increase travel in each direction, rotate the corresponding dial clockwise.
STEERING TRIM

The steering trim dial is used to adjust the steering trim when the wheel is centered. Rotating the dial causes the steering trim (the steering at rest position) to be changed. Normally steering trim is adjusted until the car tracks straight.

THROTTLE TRIM

The throttle trim dial is used to adjust the throttle trim when the throttle stick is released (neutral position). This is typically used to adjust the brakes. Rotating the dial causes the throttle trim (the throttle position at rest) to be changed.
STEERING RATE

Steering rate (also known as dual rate) allows on-the-fly steering travel adjustments to be made using the steering rate dial. Steering rate limits the amount of travel of the steering servo. The steering rate cannot be greater than 100% and will never exceed the amount of steering travel set with the travel adjust dials.

RF MODE

The DX3E features an RF mode switch on the bottom side of the transmitter near the trigger. Std is the standard RF mode. FR is the France RF mode and should only be selected if the transmitter is used in France.

GENERAL NOTES

Radio controlled models are a great source of pleasure. Unfortunately, they can also pose a potential hazard if not operated and maintained properly. It is imperative to install your radio control system correctly. Additionally, your level of operating competency must be high enough to ensure you are able to control your model under all conditions. If you are a newcomer to radio controlled models, please seek help from an experienced modeler or your local hobby shop.

Safety Points to Obey for Modelers

- Ensure your batteries (both transmitter and receiver) have been properly charged for your model.
- Check all servos and their connections prior to each run.
- Do not operate your model near spectators, parking areas or any other area that could result in injury to people or damage of property.
- Do not operate your model during adverse weather conditions. Poor visibility can cause disorientation and loss of control of your model.
- Do not point the transmitter antenna directly toward the model. The radiation pattern from the tip of the antenna is inherently low.
- Do not take chances. If at any time during the operation of your model you observe any erratic or abnormal operation, immediately stop operation of your model until the cause of the problem has been ascertained and corrected. Safety can never be taken lightly.
3. Q: I’ve heard that the DSM system is less tolerant of low voltage. Is this correct?

A: All DSM receivers have an operational voltage range of 3.5 to 9 volts. With most systems this is not a problem as in fact most servos cease to operate at around 3.8 volts. When using multiple high-current draw servos with a single or inadequate battery/power source, heavy momentary loads can cause the voltage to dip below this 3.5-volt threshold causing the entire system (servos and receiver) to brown out. When the voltage drops below the low voltage threshold (3.5 volts), the DSM receiver must reboot (go through the start up process of scanning the band and finding the transmitter) and this can take several seconds.

4. Q: Sometimes my receiver loses its bind and won’t connect, requiring rebinding. What happens if the bind is lost in use?

A: The receiver will never lose its bind unless it’s instructed to. It’s important to understand that during the binding process the receiver not only learns the GUID (Globally Unique Identifier code) stored during binding. If the system fails to connect, the following more than likely may have occurred:

- The transmitter is near conductive material (transmitter case, truck bed, etc.) and the reflected 2.4GHz energy is preventing the system from connecting. (See #2 on this page)
GENERAL INFORMATION

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.

Antenna Separation Distance

When operating your Spektrum transmitter, please be sure to maintain a separation distance of at least 5 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. The illustrations below show the approximate 5 cm RF exposure area and typical hand placement when operating your Spektrum transmitter.

WARRANTY INFORMATION

Warranty Period

Exclusive Warranty- Horizon Hobby, Inc., (Horizon) warranties that the Products purchased (the “Product”) will be free from defects in materials and workmanship for a period of 1 year from the date of purchase by the Purchaser.

1 Year Limited Warranty

(a) This warranty is limited to the original Purchaser (“Purchaser”) and is not transferable. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. This warranty covers only those Products purchased from an authorized Horizon dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims. Further, Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

(b) Limitations- HORIZON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER’S INTENDED USE.

(c) Purchaser Remedy- Horizon's sole obligation hereunder shall be that Horizon will, at its option, (i) repair or (ii) replace, any Product determined by Horizon to be defective. In the event of a defect, these are the Purchaser’s exclusive remedies. Horizon reserves the right to inspect any and all equipment involved in a warranty claim. Repair or replacement decisions are at the sole discretion of Horizon. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance, or attempted repair by anyone other than Horizon. Return of any goods by Purchaser must be approved in writing by Horizon before shipment.
Damage Limits

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. 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 this Product, you are advised to return this 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).

Safety Precautions

This is a sophisticated hobby Product and not a toy. 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. The Product 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 injury.

Questions, Assistance and Repairs

Your local hobby store and/or place of purchase cannot provide warranty support or repair. Once assembly, setup or use of the Product has been started, you must contact 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 direct your email to productsupport@horizonhobby.com, or call 877.504.0233 toll free to speak to a product support representative.

Inspection or Repairs

If this Product needs to be inspected or repaired, please call for a Return Merchandise Authorization (RMA). 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. A Service Repair Request is available at www.horizonhobby.com on the “Support” tab. If you do not have internet access, please include a letter with your complete name, street address, email address and phone number where you can be reached during business days, your RMA number, a list of the included items, method of payment for any non-warranty expenses and a brief summary of the problem. Your original sales receipt must also be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

Warranty Inspection and Repairs

To receive warranty service, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be repaired or replaced free of charge. Repair or replacement decisions are at the sole discretion of Horizon Hobby.

Non-Warranty Repairs

Should your repair not be covered by warranty the repair 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 repair you are agreeing to payment of the repair without notification. Repair estimates are available upon request. You must include this request with your repair. Non-warranty repair estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Please advise us of your preferred method of payment. Horizon accepts money orders and cashier checks, as well as Visa, MasterCard, American Express, and Discover cards.

If you choose to pay by credit card, please include your credit card number and expiration date. Any repair left unpaid or unclaimed after 90 days will be considered abandoned and will be disposed of accordingly.

Please note: non-warranty repair is only available on electronics and model engines.
United States

Electronics and engines requiring inspection or repair should be shipped to the following address:

Horizon Service Center
4105 Fieldstone Road
Champaign, Illinois 61822 USA

All other products requiring warranty inspection or repair should be shipped to the following address:

Horizon Support Team
4105 Fieldstone Road
Champaign, Illinois 61822 USA

Please call 877.504.0233 or e-mail us at productsupport@horizonhobby.com with any questions or concerns regarding this product or warranty.

United Kingdom

Electronics and engines requiring inspection or repair should be shipped to the following address:

Horizon Hobby UK
Units 1-4 Ployters Rd
Staple Tye
Harlow, Essex
CM18 7NS
United Kingdom

Please call +44 (0) 1279 641 097 or email us at sales@horizonhobby.co.uk with any questions or concerns regarding this product or warranty.

Germany

Electronics and engines requiring inspection or repair should be shipped to the following address:

Horizon Technischer Service
Hamburger Str. 10
25335 Elmshorn
Germany

Please call +49 4121 46199 66 or email us at service@horizonhobby.de with any questions or concerns regarding this product or warranty.

France

Horizon Hobby SAS
14 Rue Gustave Eiffel
Zone d’Activité du Réveil Matin
91230 Montgeron
France

Please call +33 (0) 1 60 47 44 47 with any questions or concerns regarding this product or warranty.
Compliance Information for the European Union

The associated regulatory agencies of the following countries recognize the noted certifications for this product as authorized for sale and use:

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

No. HH20090712

Product(s): Spektrum DX3E Surface Radio (International)
Item Number(s): SPM3160E

Equipment class: 2

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

- EN 60950 Safety
- EN 300-328- V1.7.1 ERM requirements for wideband transmission systems operating in the 2.4 GHz ISM band
- EN 301 489-1 v.1.6.1 General EMC requirements for Radio equipment
- EN 301 489-17 v.1.2.1

Signed for and on behalf of:
Horizon Hobby, Inc.
Champaign, IL USA
July. 12, 2009

Steven A. Hall
Vice President
International Operations and Risk Management
Horizon Hobby, Inc.

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.