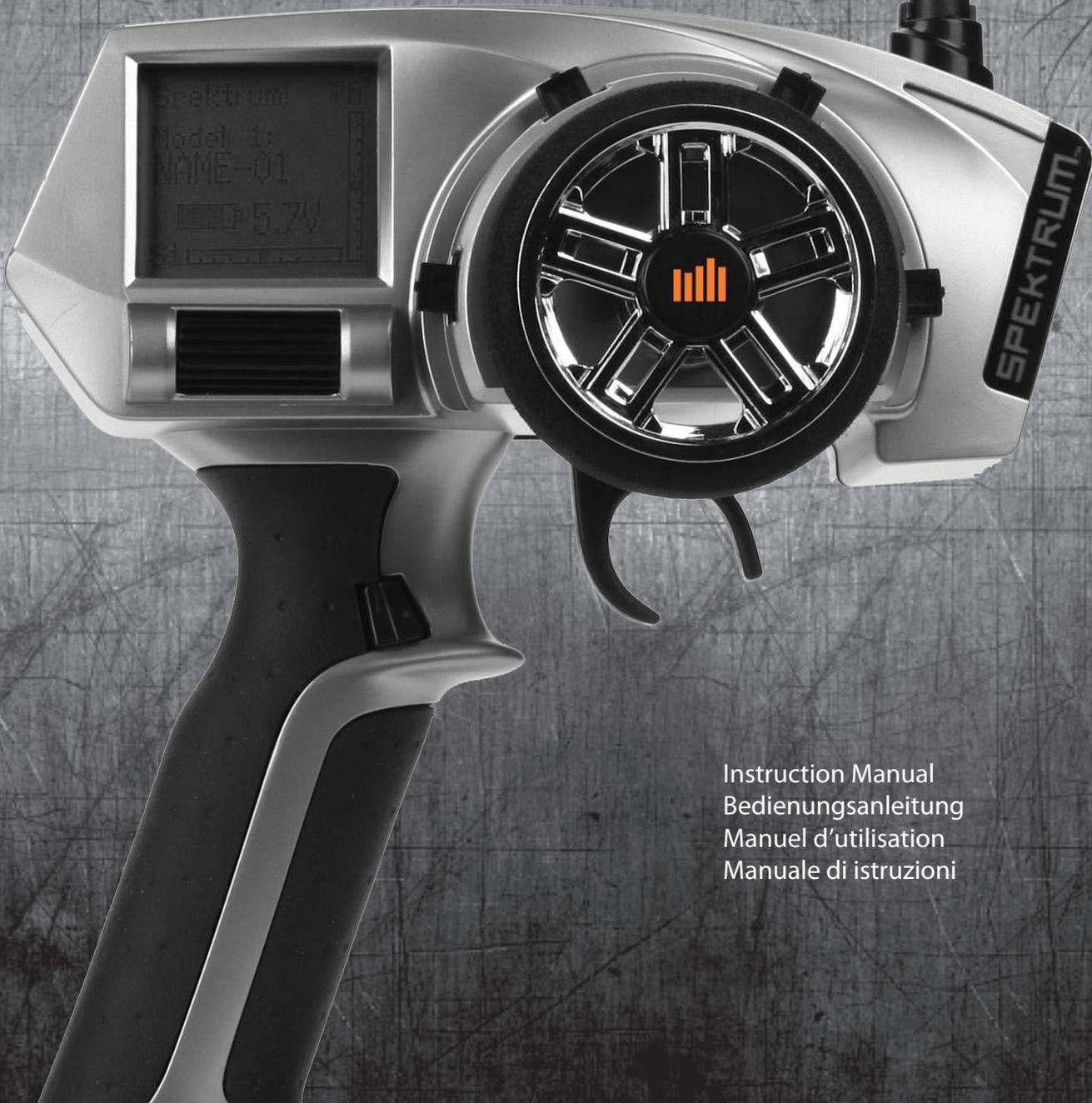




# DX3C

3-Channel 2.4GHz DSM Radio System



Instruction Manual  
Bedienungsanleitung  
Manuel d'utilisation  
Manuale di istruzioni

## NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, Inc. 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.



**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, Inc. 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

Thank you for purchasing a genuine Spektrum product. Always purchase from a Horizon Hobby, Inc. authorized dealer to ensure authentic high-quality Spektrum product. Horizon Hobby, Inc. 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.

## WARRANTY REGISTRATION

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

### Safety Points to Obey for Modelers

- Make sure your transmitter and receiver batteries are fully charged before each use of the transmitter.
- Keep track of the time the system is turned on so you will know how long you can safely operate your transmitter.
- Make sure all servos, linkages and electrical wires are correctly connected before operating a model.
- 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.
- Always stop your model if it becomes less responsive to your transmitter. Get your model under your full control and make repairs as needed.

### 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.

**FRANCE RF SETTING:** The DX3C has a France RF setting that complies with French regulations. Always use the France power setting when operating the transmitter outdoors in France.

Thank you for purchasing the Spektrum DX3C transmitter. With advanced programming, refined ergonomics, a sleek style and an SD card slot for enhancements, the DX3C is perfect for sport drivers.

## TABLE OF CONTENTS

System Features.....	3	Travel.....	8
Table of Contents.....	3	Bind Transmitter to Receiver.....	9
Identifying Controls and Switches.....	4	Failsafe.....	9
Installing Batteries.....	4	Sub-Trim.....	10
Rubber Grip.....	5	Name.....	10
SD Memory Card.....	5	Switch.....	11
Antenna Rotation.....	5	Steering Rate.....	11
Receiver Information.....	5	Copy.....	12
Receiver Connection and Installation.....	5	Reset.....	13
ModelMatch.....	6	Mixing.....	13
Warning screens.....	6	Steer Mix.....	14
Low Battery Alarm.....	6	Troubleshooting Guide.....	15
Inactivity Alarm.....	6	FCC Information.....	15
Main Screen.....	6	Warranty and Repair Policy.....	16
PROGRAMMING GUIDE		Warranty and Service Contact Information.....	17
“Sticky” (GUI).....	7	Parts Contact Information.....	17
Select.....	8	Compliance Information for the European Union.....	17
Reverse.....	8		

### Contents

The DX3C radio system is supplied with the following:

- DX3C transmitter
- SR300 receiver (SPMSR300)
- Bind plug (SPM6802)
- 4 AA Alkaline batteries
- Switch harness
- Grip Set (SPM9006)
- Battery Door (SPM9004)

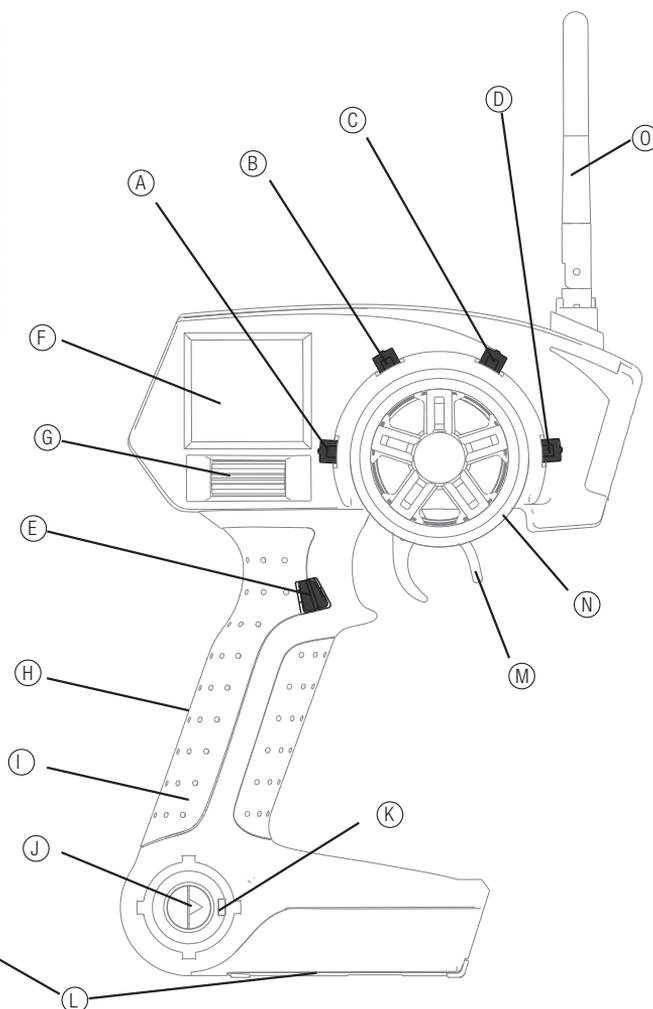
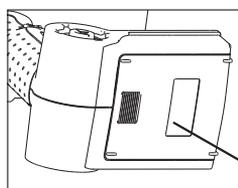
### System Features

- One-touch easy-to-use programming
- Programmable Up or Down timers
- 56 (high) x 64 (wide) high-resolution dot-matrix screen
- 20-model memory
- Travel adjust
- Exponential
- Steering mix
- Programmable mix

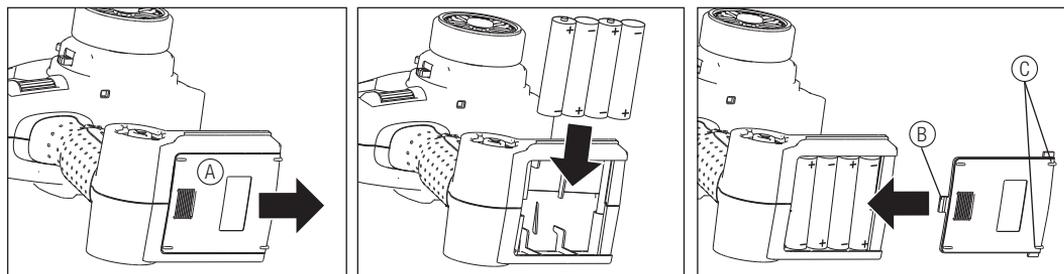
## IDENTIFYING CONTROLS AND SWITCHES

Function	Function
(A) Button A	(L) Rubber Grip
(B) Button B	(J) Power Switch
(C) Button C	(K) Power LED
(D) Button D	(L) Battery Cover
(E) Button E	(M) Throttle Trigger
(F) LCD Screen	(N) Steering Wheel
(G) Roller Selector	(O) Antenna
(H) Memory Card Port (under rubber grip)	

Press power switch (J) to power ON the transmitter. The Power LED (K) will come on, a Spektrum logo screen will show, then the Main Screen will show on the LCD screen (F).



## INSTALLING BATTERIES



1. Push in door (A) a small amount to release the retaining tab (B), then remove door.
2. Correctly install 4 AA batteries, aligning battery polarity to diagram in transmitter's battery case.
3. Align tabs (C) on door with slots on transmitter and carefully install door on transmitter.



**CAUTION:** Do not remove transmitter batteries while model is powered on or while operating a model or loss of model control, damage or injury can result.

## Rubber Grip

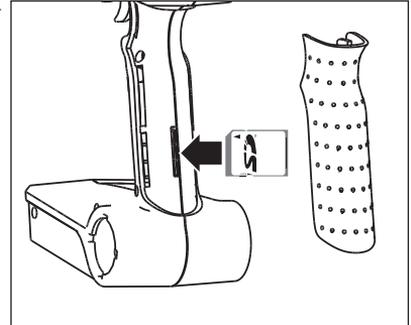
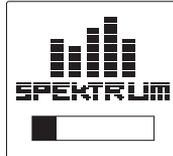
This transmitter includes 3 sizes of grips and the medium-size grip is installed at the factory. Inside the grip is a letter showing size: L for large, M for medium and S for small.

Remove the grip by lifting the edge of the grip and pulling the grip away from the handle. Install a grip by aligning grip tabs with handle slots and pressing the grip in place.

## SD Memory Card

The DX3C features an SD card reader allowing your transmitter's software to be updated using an SD card (sold separately). Download upgrade software (when available) from the Spektrum website and transfer the software to your transmitter using an SD card. To upload new software to your DX3C transmitter:

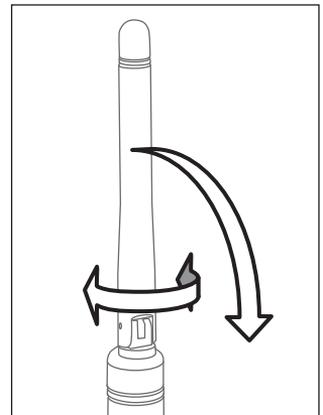
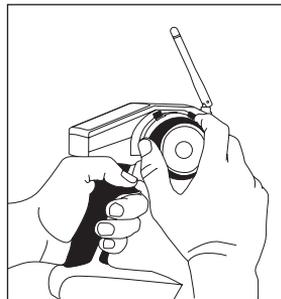
1. Remove the grip from the back of the transmitter handle.
2. Insert an SD card containing Spektrum update software in the card reader port.
3. Power on your transmitter.
4. A Spektrum logo screen shows and a progress meter will fill until upload of software is complete.
5. Remove the SD card from the transmitter.
6. Replace the grip on the transmitter handle.
7. The transmitter is updated and ready for use.



## ANTENNA ROTATION

Turn and bend the antenna at its hinge to point the tip of the antenna away from the model. The strongest signal of the transmitter comes from the shaft of the antenna, not the tip.

**WARNING:** Do not pick up the transmitter by the antenna. Do not alter or put weight on the antenna. Damage to antenna parts can decrease transmitter signal strength, which can result in loss of model control, injury or property damage.



## RECEIVER INFORMATION

The DX3C features DSM technology and is compatible with Spektrum DSM, DSM2, and Marine surface receivers. See [www.spektrumrc.com](http://www.spektrumrc.com) for all compatible receivers.

### Receiver Connection and Installation

Install the receiver using double-stick tape in the typical electric-powered model on the side opposite from the ESC. Install the receiver using double-stick tape in the typical gas-powered model as far forward of the motor as possible.

Put the receiver antenna in an antenna tube and make sure the receiver's antenna goes above the motor and other metal parts for best reception of the transmitter signal.

## ModelMatch

The DX3C features ModelMatch technology that prevents operating a model using the wrong model memory. During the binding process, the receiver stores code that is assigned to the specific model that is currently selected in the transmitter. For example: if the model that is selected in the transmitter is model #3, when a receiver is bound to that transmitter, the receiver will only operate when model #3 is selected. If another model memory is selected (model #5 for example) the receiver will not connect. If model #3 is again selected in the transmitter, the receiver bound to model #3 will connect. ModelMatch prevents operating a model using the wrong model memory.

## WARNING SCREENS

### Low Battery Alarm

An alarm will sound and a warning screen will show when the transmitter's battery power goes below a set limit. This alarm reminds a user to bring a model under full control, power off the transmitter and replace batteries. Press the Roller to stop the alarm and go to the *Main Screen*.

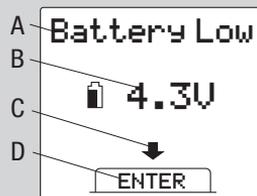
Set the low battery limit using the *System Screen*.

**A** Warning title

**B** Battery voltage which is under the set limit

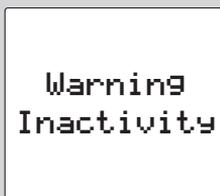
**C** Animated arrow pointing to Roller below screen

**D** Image of roller below screen.



### Inactivity Alarm

An alarm will sound and a warning screen will show when the transmitter has been left on (approximately 10 minutes) without control movement. Moving any control will stop the alarm. This alarm reminds users to power off the transmitter and save battery power.



## MAIN SCREEN

The *Main Screen* displays information about the selected model such as trim positions, timer, the model selected, battery voltage, etc. This screen shows the Timer only when activated.

**Note:** An alarm will sound when the transmitter's battery voltage goes below the value set in the *System Screen*.

**Note:** An alarm will sound when the timer gets to the limit (DOWN) set in the *Timer Screen*.

While in any screen, press and hold the Rolling Selector for more than 3 seconds to return to the *Main Screen*.

Throttle (TH) and Steering (ST) trim positions show as blocks in rectangles.

**A** Transmitter battery voltage.

**B** Name assigned to the Model memory.

**C** Active Model memory number (20 available).

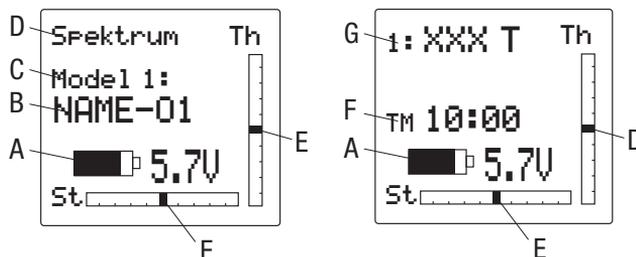
**D** User Name.

**E** Position of Throttle (Th) trim.

**F** Position of Steering (St) trim.

**G** Timer (when activated).

**H** Model number and name (Timer activated).



## PROGRAMMING GUIDE

### Roller and LCD Screen Use

This transmitter features one-touch programming using a Rolling Selector. The Rolling Selector has three functions:

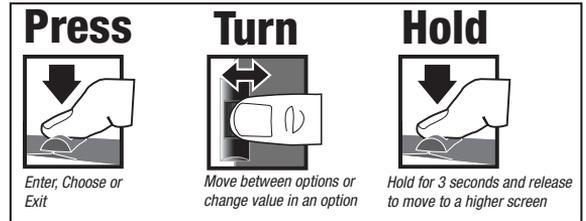
**Pressing the Selector** - enters the selected function.

**Rolling the Selector** - highlights function or changes settings and values when selected.

**Pressing and holding the Selector for more than 3 seconds from any screen** - returns the display to the Main Screen.

Programming always starts with a press on the selector, then a roll, then a press, then a roll and so on.

Some racers find it convenient to use a thumb to make programming changes. The roller's location allows a racer to do one-handed programming, controlling the model with one hand while making programming adjustments with the other.



### “Sticky” (GUI)

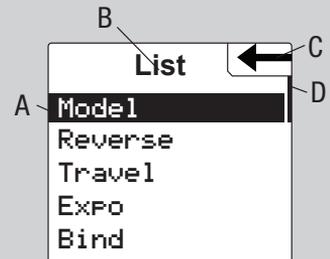
In the Travel, Expo, Mixing and Steer Mixing Screens, sticky gooey (GUI) makes value adjustment easier. When you move the channel control (the steering wheel or throttle trigger) to the desired position and release, the value on the screen for that side remains highlighted.

Move the control the opposite direction to highlight the other value on the screen. You do not have to hold the control in the desired position for the value to be changed. Highlight both values on the screen again by pressing the Rolling Selector twice with the control centered.

### List

The List Screen shows other screens to set programming in the transmitter.

- A** A dark box around with a clear symbol or text shows highlighted selection. Available screens are *Select, Reverse, Travel, Expo, Bind, Sub-Trim, Timer, Name, Switch, System, Copy, Reset, Mixing* and *Steer Mix*.
- B** Active Screen name shows at the top of the screen.
- C** Choosing this arrow will open the next higher screen, such as Main Screen or this List Screen.
- D** A small bar shows relative position of highlighted screen name in the List.

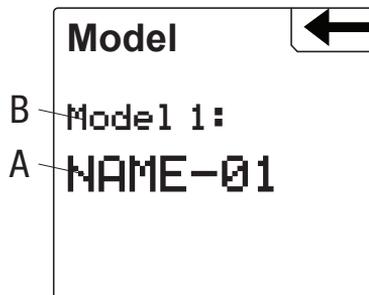


## Select

Select function opens a model memory for control of a model or adjustment of saved settings. If you haven't programmed a model memory, all settings will be at factory default.

**CAUTION:** Do NOT change the model in Model Select while operating a model. Change of the model interrupts transmitter signal to a receiver and may cause a crash.

- A Model memory number (20 available).
- B Model name (programmable in Name Screen).

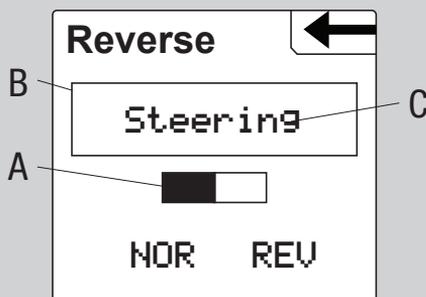


## Reverse

The Reverse function (also known as servo reversing) establishes the servo's direction relative to the channel's input (e.g., a right steering input should result in a right steering angle at the model). Reverse is available on all three channels and is normally the first function that is checked and adjusted during programming. Movement of a control or switch is NOT changed. Instead, a channel's response to transmitter input is reversed.

**Note:** Your model manual may refer to this as changing transmitter control directions in the Control Test/Reverse Controls section.

- A Dark box shows direction servo is set (Normal is shown): NOR=normal or REV=reverse.
- B Box shows around selected text.
- C Channels which can be reversed: *Steering, Throttle* or *Aux* (auxiliary).



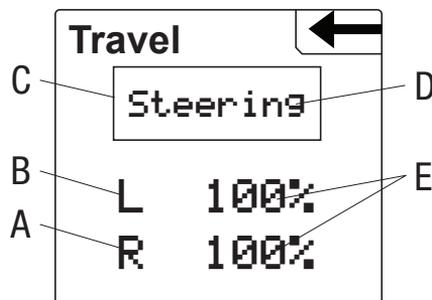
## Travel

The Travel function supports precise endpoint adjustments in each direction for each of the 3 channels (Steering, Throttle and Aux (auxiliary)).

- A R (right)\*.
- B L (left)\*.
- C Box shows around selected text.
- D Channel: (*Steering, Throttle* or *Aux* (auxiliary)).
- E Adjustable value (from 0 to 150%).

\*Reference chart for options available for each channel:

Channel	Top	Bottom
<b>Steering</b>	L (left)	R (right)
<b>Throttle</b>	B (brake)	F (forward)
<b>Aux</b>	H (high)	L (low)



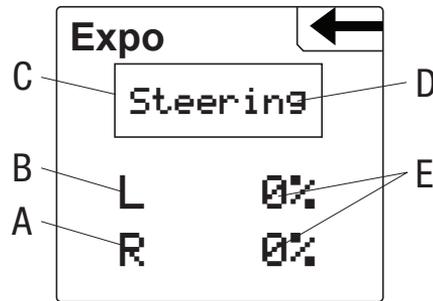
**CAUTION:** Before driving a model, always do a check of the model's response to changed Travel settings. Raise vehicle so vehicle does not move on tires during testing.

## Expo

The Exponential (Expo) function affects the response rate of the steering, throttle and/or brake. A positive Steering Expo value, for example, decreases steering sensitivity around neutral making it easier to drive at high speeds in a straight line while still allowing for maximum turning radius. While sensitivity with positive Expo is decreased around neutral, it increases the sensitivity near the end of travel.

\*Reference chart for options available for each channel:

Channel	Top	Bottom
<b>Steering</b>	L (left)	R (right)
<b>Throttle</b>	B (brake)	F (forward)



- A** R (right)\*.
- B** L (left)\*.
- C** Box shows around selected text.
- D** Channel: (*Steering, Throttle or Aux (auxiliary)*).
- E** Adjustable value (from -100% to +100% (0 is factory default or inhibit)).

## Bind

Binding is the process of teaching the receiver the specific transmitter's code called GUID (Globally Unique Identifier) and storing failsafe values. When a receiver is bound to a transmitter/model memory, the receiver will only respond to that specific transmitter/model memory (see ModelMatch for more information).

**Note:** If a receiver is not bound to a specific model memory, it will not operate.

### Bind Transmitter to Receiver

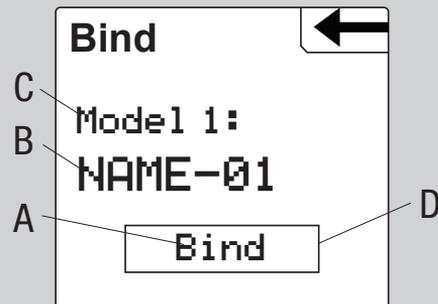
1. Insert a bind plug in the receiver's BIND port.
2. Power on the receiver and wait until the receiver LED begins to blink (approximately 5 seconds).
3. Power on the transmitter.
4. Make sure the model number you desire shows on the Main Screen. Go to the Model Select Screen to change the active model number as needed.
5. Go to the transmitter's Bind Screen and highlight BIND.
6. Move steering wheel, throttle trigger and AUX channel (where used) to desired Failsafe positions and hold them in that position during the bind process.
7. Press the Rolling Selector to start the bind process (which also stores Failsafe positions).
8. BIND will flash on the screen for a few seconds then stop and the receiver LED will show a solid light, indicating the bind process is complete.
9. When the bind process is complete, remove bind plug and store plug in a convenient place.

**NOTICE:** If the bind plug is not removed from the receiver, the receiver will enter bind mode the next time the receiver is powered on.

## 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 pre-programmed failsafe positions (normally full brakes and straight steering). If the 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.

**Note:** Failsafe activates only in the event that signal is lost from the transmitter. Failsafe will NOT activate in the event that receiver battery power goes down or power to the receiver is lost.



The Bind Screen shows the active model and supports binding the active model memory to a receiver.

- A** Select Bind when a receiver is prepared for binding.
- B** Active model name.
- C** Active model number.
- D** A dark box around the text shows binding action.

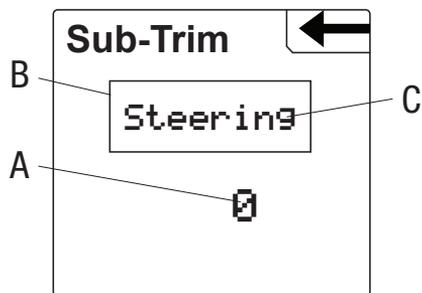
## Sub-Trim

The Sub-Trim function allows electronic adjustment or centering of each servo to get the servo arm exactly perpendicular to the servo, or in the exact optimum desired position. Minor sub-trim values can be used to correct this offset inaccuracy. Sub-trim is adjustable for each of the 3 channels.

**CAUTION:** Use only small sub-trim values so a servo's maximum travel is NOT overdriven.

\*Reference chart for options available for each channel:

Channel	Description	
<b>Steering</b>	L (left)	R (right)
<b>Throttle</b>	B (brake)	F (forward)
<b>Aux</b>	H (high)	L (low)



**A** Value for servo alignment (varies among channels).

\* Range is 0 to 100 in both directions.

**B** Box shows around selected text.

**C** Channels: Steering, Throttle or Aux=Auxiliary.

## Timer

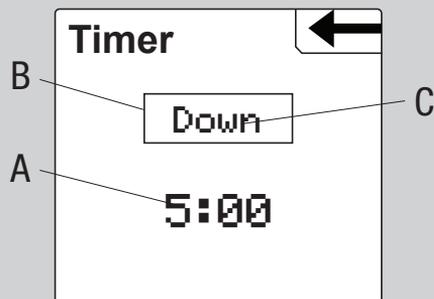
The Timer function supports Up and Down timing. When started by an assigned button, the time shows on the Main Screen.

**Note:** Refer to Switch Screen instructions for assigning a button to the Timer (Button E on the grip handle is recommended).

**Down timer** – is the default timer type. The timer can be set in 10-second increments to count down from 10 minutes. Normally, this timer is programmed for the length of a race. The timer's default setting is 5 minutes runtime for *electrics* (battery capacity) or *gas-powered* (fuel-tank capacity).

Start the timer by pressing the assigned timer button. When the time expires, an alarm will sound until the timer button is pressed (when Buzzer is not set to OFF). To pause or continue the Down timer, press the timer button once. To reset the Down timer to its pre-programmed value, press and hold the timer button for more than 3 seconds.

**Up timer** – is started by pressing the timer button and counts up from 00:00 seconds, functioning as a stopwatch. The Up timer is useful for timing a fuel run to determine fuel mileage/pit stop strategy. The Up timer can also be used for electrics to time the run time of a battery pack for determining gear ratio and setup. To pause or restart the Up timer, press the timer button. To reset the Up timer to 00:00 press and hold the timer button for more than 3 seconds.



**A** Value for timer.

**B** Box shows around selected text.

**C** Options: Inhibit, Down and Up.

## Name

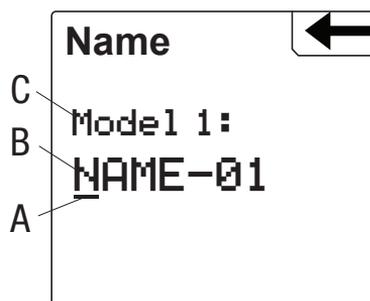
Assign a name for a model memory in this screen. 10 characters can be used to name a model. This name shows on the Main Screen when a model memory is active.

**Note:** You can only change a model name when the model memory is active.

**A** Marker showing selected character.

**B** Model Name (10 character spaces available).

**C** Active model memory.



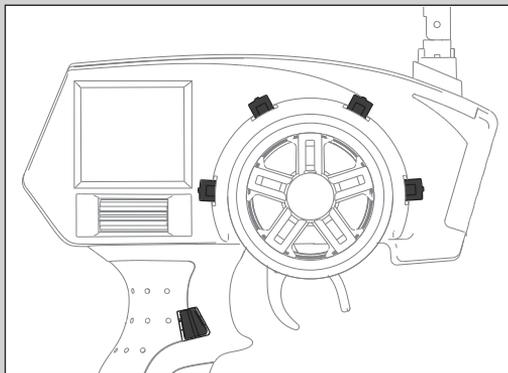
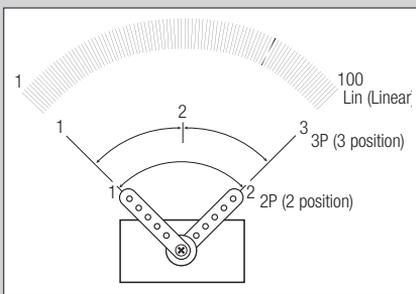
## Switch

The Switch Screen lets you assign 5 available switches to these special functions:

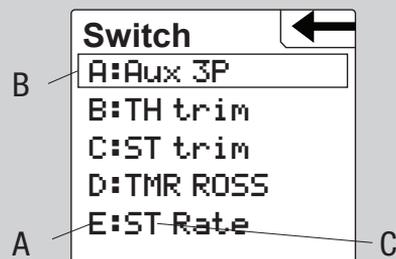
- ST trim** Assigns a switch to adjust center or neutral so steering tracks straight
- TH trim** Assigns the throttle idle adjustment to switch. Adjust throttle neutral (idle) position for drag braking or rolling idle for some models. Decreasing idle can enable a drag brake. Increasing idle can keep a model rolling until the brake is used.
- Brake** Assigns brake trim to switch. Full brake is the default. Braking power can be decreased using this trim on some models.
- Aux Lin** Assigns channel 3 (Auxiliary) to switch as linear output (see servo illustration). This allows for proportional adjustment of servo position. This is particularly useful for fuel mixture control on gas engines.
- Aux 2P** Assigns channel 3 (Auxiliary) to switch as 2-position output (see servo illustration). This is useful for forward and reverse transmissions and some 2-speed transmissions.
- Aux 3P** Assigns channel 3 (Auxiliary) to switch as 3-position output (see servo illustration). This is useful for forward, neutral and reverse transmissions and some dig transmissions.

**Note:** Reverse and Travel Screens adjust the endpoints and direction of the Auxiliary channel.

- ST Rate** Assigns Steering rate to a switch so a driver can make on-the-fly steering travel adjustments. Steering rate limits the amount of travel of the steering servo



- TMR ROSS** Timer and ROSS\* assigned to right and left sides of a switch.
- ROSS TMR** ROSS and Timer assigned to right and left sides of a switch.
- TMR** Timer start, pause, stop and reset assigned to a switch
- ROSS** Remote start assigned to a switch
- ST MIX** Steering mix assigned to a switch
- Inhibit** No function assigned to switch



\* *LOSI ROSS (Remote Onboard Starting System)*

- A** Switch letter (see transmitter illustration)
- B** Box shows around selected text
- C** Function assigned to the switch

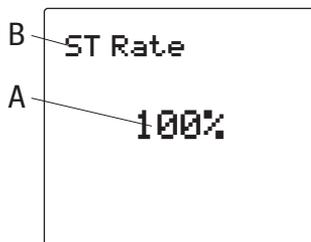
**Note:** Assignment of switches in other screens changes what is shown in this screen.

**Note:** The factory default switch assignments are shown here. Reset of the transmitter returns switch assignments to these functions.

## Steering Rate

Steering (ST) rate lets you quickly make steering travel adjustments using a designated switch (program switch A, B, C, D or E on the *Switch Screen*). Steering rate limits the amount of travel of the steering servo. Decreasing the rate decreases sensitivity of steering control. Some drivers decrease this rate when driving on an oval race course to decrease the amount of steering travel 'on the fly'. You can adjust the rate between 0–100%. Factory default setting is 100%. The rate cannot be greater than 100% and will never exceed the amount of steering travel set in the Travel Screen.

**Note:** Refer to your model's manual for recommended rate settings.



- A** Steering rate
- B** Screen title

## System

The System function lets you adjust transmitter interaction. Selections affect all saved model memories.

### A Username

You can program a user name with up to 10 characters. This name shows on the Main Screen. User name defaults to Spektrum.

In the System screen highlight the User Name and press the roller to access the function. Use the roller to select the position, then press the roller to access a character.

### B RS Port

This sets the port (*Bind* or *Aux* (Auxiliary)) on the receiver for ROSS (Losi Remote Onboard Starting System) connection.

### C Alert

You can set an alarm to sound when the battery voltage gets to the limit set with the Alert. The range which can be set is from 0.0V to 6.2V. Battery voltage shows on the Main Screen.

**CAUTION:** Do not operate a model when the battery voltage is below 4V.

### D Contrast

The contrast function provides adjustment to the brightness ratio of the lightest to the darkest part of the screen. You can set the contrast to a value from 0 to 30 (0 is lightest and 30 is darkest).

### E Buzzer

You can adjust sounds in loudness among *Off*, *Low* and *High*.

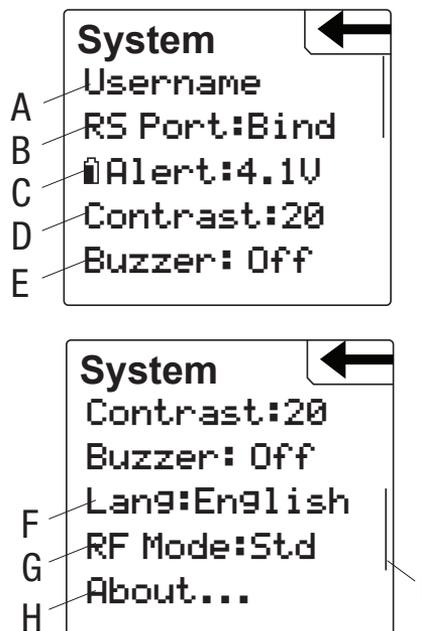
**Note:** Buzzer adjustment does not change sound level for Inactivity or Low Battery warnings.

### F Lang (Language)

You can select English, German (Deu.), French (Français) or Italian (Italiano) as the language showing on transmitter screens.

### G RF Mode

You can set this mode on either Std or FR. Std is the standard RF mode. FR is the France RF mode and should only be selected when the transmitter is used in France.



### H About....

This shows the release level of the transmitter's software. Refer to Memory Card instructions for updating transmitter software.

### I

A small bar shows relative position of highlighted screen name in the list.

## Copy

The Copy function shares active model memory settings with a selected model memory space. This is useful for saving setups for one model to adjust programming for track conditions or model setups.

**A** Choosing *No* returns to the List Screen

**B** Name of destination model memory

**C** Name of active or source model memory

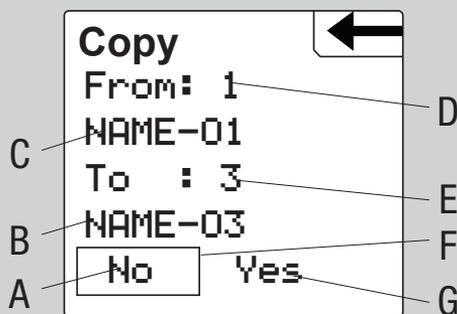
**D** Active or source model memory number

**E** Destination model memory number

**F** Box shows selected text

**G** Choosing *Yes* saves active model settings to the selected model memory

**CAUTION:** Model information saved in a memory is erased and overwritten by active model settings using this Copy function.



## Reset

The Model Reset function restores factory default settings for the active model memory.

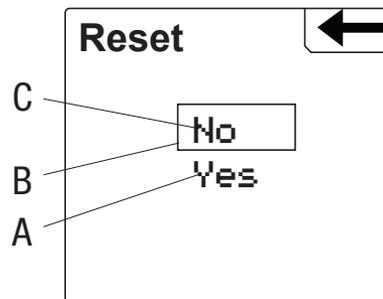
**A** Choosing *Yes* affirms erasing saved settings for the active model memory and return of factory defaults.

**B** A box shows around selected text.

**C** Choosing *No* returns to the List Screen.



**CAUTION:** Model information saved in a memory is erased when that model memory is copied over or reset to factory default settings.



## Mixing

The Mixing function lets Steering, Throttle or Aux Channel follow control input made to the Steering, Throttle or Aux channel.

When a mix is enabled and the assigned input control is moved, the master (primary) channel sends output at the same time the slave (secondary) channel sends output. Output is sent to the model in the direction and to the position assigned in the Mixing Screen.

**Note:** You can only select the Aux channel as Slave in this screen when Steer Mix is inhibited.

Mixing default setting is inhibit (*Inh*). When anything other than *Inh* is selected, you can make additional adjustments on the Mixing Screen.

**A** *Inh* must be changed to enter other mixing values.

**B** A box shows around selected text.

**C** This rate value sets the amount of slave servo travel and can be set from -125% to +125%. A negative value results in the slave channel moving in a direction opposite the direction of the primary channel.

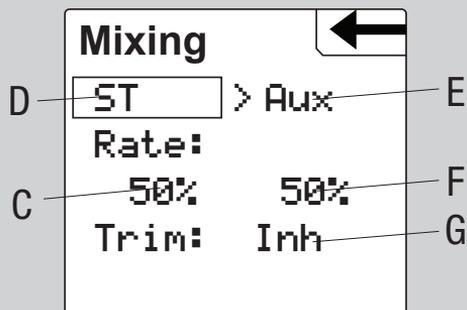
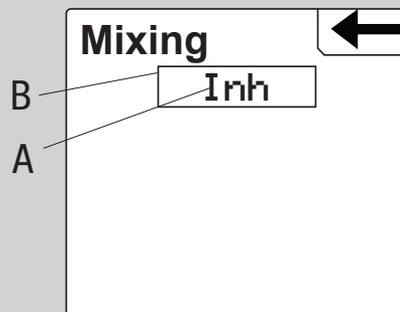
**D** The primary or master channel can be either *ST* (Steering), *TH* (Throttle) or *AUX* (Auxiliary).

**E** The secondary or Slave channel can be set on *ST*, *TH* or *Aux* (Channel 3 Auxiliary).

**F** This rate value can be set from -125% to +125%.

**G** This can be set on *Inh* (inhibit) or *Act* (activate) When set to *Act*, trim changes on the master channel will also change the slave channel trim.

**NOTICE:** Before driving a model, always do a check of the model's response to mix settings. Raise vehicle so vehicle does not move on tires during testing.



**CAUTION:** A negative value results in the secondary channel moving in a direction opposite the direction of the primary channel.

## Steer Mix

Steer Mix function supports mixing Steering to Auxiliary channel so the Auxiliary input follows input to Steering.

Steer mix is usually used to manage how much rear steering follows front steering inputs.

Typically, this mixing function is used with 2 steering servos on trucks (front and rear servos). F/R (front/rear) type supports 2 mix rates so crab steering and four-wheel steering can be used momentarily with a switch. Dual type supports full-time mixing without a switch.

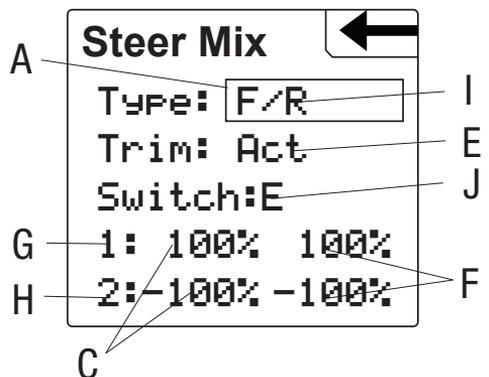
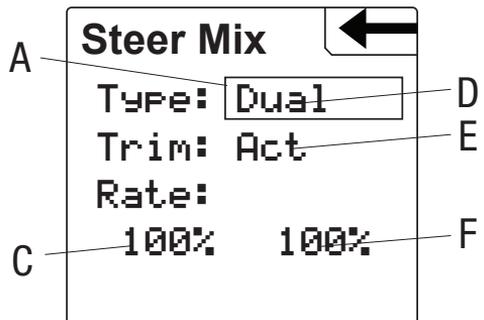
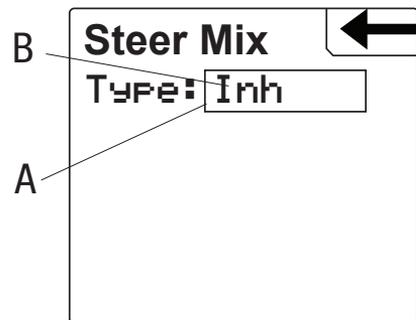
**Note:** Assigning a switch in this screen changes the assignment of that switch in the Switch Screen. Default switch for F/R is E.

**Note:** When Steer Mix is not inhibited, the Auxiliary channel cannot be selected as Slave in the Mixing screen..

**Note:** When Steer Mix is assigned to a switch, moving the switch accesses the alternate set of rate values. Adjust positive (+) and negative (-) values for conventional or crab steering.

**NOTICE:** Before driving a model, always do a check of the model's response to steer mix settings. Raise vehicle so vehicle does not move on tires during testing.

- A** A box shows around selected text.
- B** *Inh* inhibits steer mixing.
- C** This rate value for left steering sets the amount of Auxiliary servo travel and can be set from -125% to +125%. A negative value results in the Auxiliary channel moving in a direction opposite the direction of the Steering channel.
- D** Dual is full-time front/rear steer mixing at the programmed rates.
- E** When Trim is *Act* (activated), the ST trim is applied to both the ST and AUX channels. When Trim is *Inh* (inhibit), the ST trim is only applied the ST channel. *Act* is the default.
- F** This rate value for right sets the amount of Auxiliary servo travel and steering can be set from -125% to +125%. A negative value results in the Auxiliary channel moving in a direction opposite the direction of the Steering channel.
- G** Position 1 for the assigned switch.
- H** Position 2 for the assigned switch.
- I** F/R enables switch assignment for the programmed steering mix rates 1 and 2.
- J** The assigned switch (A, B, C, D or E) lets a driver enable front/rear steering mix rate 1 or 2.



## TROUBLESHOOTING GUIDE

Problem	Possible Cause	Solution
The system will not connect	Transmitter and receiver too near each other	Move transmitter 8 to 12 feet (2.4 to 3.6m) from receiver
	Transmitter and receiver too near large metal objects (vehicles, etc.)	Move away from large metal objects (vehicles, etc.)
	Selected model is not bound in transmitter	Make sure correct model memory is selected and that transmitter is bound to the model
	Transmitter accidentally put in bind mode so receiver is no longer bound	Rebind transmitter and receiver
The receiver goes into failsafe mode a short distance away from the transmitter	Check the receiver antenna to be sure it is not cut or damaged	Replace or contact Horizon Product Support
		Make sure receiver antenna is in an antenna tube and is above vehicle
Receiver quits responding during operation	Low battery voltage	Completely recharge battery
	Loose or damaged wires or connectors between battery and receiver	Do a check of the wires and connection between battery and receiver. Repair or replace wires and/or connectors
Receiver loses its bind	Transmitter accidentally put in bind mode, ending bind to receiver	Bind transmitter to receiver
Receiver taking longer than usual to link with transmitter	Transmitter and receiver are operating on Marine model	Marine receivers can take longer to link with transmitter

## 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.

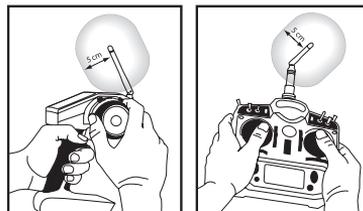
**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 AND REPAIR POLICY

### 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

**Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.**

(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 all warranty claims.

(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 Product 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).

### Warranty Services

#### 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](mailto:productsupport@horizonhobby.com), or call 877.504.0233 toll free to speak to a Product Support representative. You may also find information on our website at [www.horizonhobby.com](http://www.horizonhobby.com).

#### Inspection or Repairs

If this Product needs to be inspected or repaired, please use the Horizon Online Repair 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 Repair Request is available at [www.horizonhobby.com](http://www.horizonhobby.com) <http://www.horizonhobby.com> under the Repairs tab. 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 repair. 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 batteries to Horizon. If you have any issue with a battery, please contact the appropriate Horizon Product Support office.**

#### 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.

#### 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. Horizon accepts money orders and cashiers checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for inspection or repair, you are agreeing to Horizon's Terms and Conditions found on our website under the Repairs tab.

## WARRANTY AND SERVICE CONTACT INFORMATION

Country of Purchase	Horizon Hobby	Address	Phone Number / Email Address
United States of America	Horizon Service Center (Electronics and engines)	4105 Fieldstone Rd Champaign, Illinois, 61822 USA	877-504-0233 Online Repair Request: visit <a href="http://www.horizonhobby.com/repairs">www.horizonhobby.com/repairs</a>
	Horizon Product Support (All other products)	4105 Fieldstone Rd Champaign, Illinois, 61822 USA	877-504-0233 <a href="mailto:productsupport@horizonhobby.com">productsupport@horizonhobby.com</a>
United Kingdom	Horizon Hobby Limited	Units 1-4 Ployters Rd Staple Tye Harlow, Essex CM18 7NS, United Kingdom	+44 (0) 1279 641 097 <a href="mailto:sales@horizonhobby.co.uk">sales@horizonhobby.co.uk</a>
Germany	Horizon Technischer Service	Hamburger Str. 10 25335 Elmshorn, Germany	+49 4121 46199 66 <a href="mailto:service@horizonhobby.de">service@horizonhobby.de</a>
France	Horizon Hobby SAS	14 Rue Gustave Eiffel Zone d'Activité du Réveil Matin 91230 Montgeron	+33 (0) 1 60 47 44 70 <a href="mailto:infofrance@horizonhobby.com">infofrance@horizonhobby.com</a>

## PARTS CONTACT INFORMATION

Country of Purchase	Horizon Hobby	Address	Phone Number / Email Address
United States	Sales	4105 Fieldstone Rd Champaign, Illinois, 61822 USA	800-338-4639 <a href="mailto:sales@horizonhobby.com">sales@horizonhobby.com</a>
United Kingdom	Horizon Hobby Limited	Units 1-4 Ployters Rd Staple Tye Harlow, Essex CM18 7NS, United Kingdom	+44 (0) 1279 641 097 <a href="mailto:sales@horizonhobby.co.uk">sales@horizonhobby.co.uk</a>
Germany	Horizon Hobby GmbH	Hamburger Str. 10 25335 Elmshorn, Germany	+49 4121 46199 60 <a href="mailto:service@horizonhobby.de">service@horizonhobby.de</a>
France	Horizon Hobby SAS	14 Rue Gustave Eiffel Zone d'Activité du Réveil Matin 91230 Montgeron	+33 (0) 1 60 47 44 70 <a href="mailto:infofrance@horizonhobby.com">infofrance@horizonhobby.com</a>

## COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

AT	BG	CZ	CY	DE
DK	ES	FI	FR	GR
HU	IE	IT	LT	LU
LV	MT	NL	PL	PT
RO	SE	SI	SK	UK



### Declaration of Conformity

(in accordance with ISO/IEC 17050-1)

No. HH2011032301

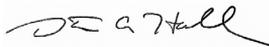
Product(s): Spektrum DX3C Transmitter  
Item Number(s): SPM3300  
Equipment class: 2

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 300-328 V1.7.1**  
**EN 301 489-1 V1.7.1: 2006**  
**EN 301 489-17 V1.3.2: 2008**  
**EN 60950-1:2006+A11**

Signed for and on behalf of:

Horizon Hobby, Inc.  
Champaign, IL USA  
March 23, 2011

  
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.

© 2011 Horizon Hobby, Inc.

*The Spektrum trademark is used with permission of Bachmann Industries, Inc.  
All other marks and logos are trademarks or registered trademarks of Horizon Hobby, Inc.*

US 7,391,320. Other patents pending.

[www.spektrum-rc.com](http://www.spektrum-rc.com)

2/11 28844 SPM3300