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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 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.

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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.

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

WARRANTY REGISTRATION
Visit community.spektrumrc.com today to register your product.

SAFETY PRECAUTIONS
- Always ensure all batteries have been properly charged prior to using the model.
- Always check all servos and their connections prior to each run.
- Never operate your model near spectators, parking areas or any other area that could result in injury to people or damage of property.
- Never operate your model during adverse weather conditions. Poor visibility can cause disorientation and loss of control of your model.
- Never point the transmitter antenna directly toward the model. The radiation pattern from the tip of the antenna is inherently low.
- 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.
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BOX CONTENTS

The DX5C transmitter is compatible with Spektrum™ DSMR® and DSM2® Receivers.
The DX5C is available with two different receivers, they are both covered in this manual
- SPM5100 includes the SR415 DSMR receiver
- SPM5110 includes the SRS6000 DSMR receiver with AVC technology

AHC – ACTIVE VEHICLE CONTROL

AHC™ technology uses sensors to add electronic stability to virtually any RC car or truck, adding performance and stability to your driving experience.

GETTING STARTED

WITH AVC
(SRS6000 AVC Receiver)
1. Install batteries in transmitter
2. Insert bind plug in receiver and then turn on vehicle
3. Turn transmitter on and put it in bind mode
4. Calibrate receiver*
5. Set up servo reverse, travel, and sub trim
6. Re-bind and calibrate receiver*
7. Tune AHC for your driving style

WITHOUT AVC
(SR415 Receiver)
1. Install batteries in transmitter
2. Insert bind plug in receiver and then turn on vehicle
3. Turn transmitter on and put it in bind mode
4. Set up servo reverse, travel, and sub trim
5. Re-bind to set proper failsafe positions

DAILY DRIVING

1. Turn on transmitter first
2. Turn on vehicle*
3. Turn off vehicle first
4. Turn off transmitter

*For AHC equipped vehicles, let the vehicle remain still until the radio is connected.
NOTICE: Digital servos are required with the SRS6000 AVC receiver. Using analog servos with AVC technology will reduce the performance of the system and may cause the servos to overheat.

**RECEIVER INSTALLATION**

**TYPICAL ELECTRIC VEHICLE INSTALLATION**

**TYPICAL NITRO VEHICLE INSTALLATION**

**ANTENNA INSTALLATION**

The SR415 and SRS6000 receivers have a coaxial style antenna. Position the antenna vertically and away from the vehicle in an antenna tube. Make sure the tip of the antenna is as high as possible to maximize the signal strength.

**SR415 RECEIVER INSTALLATION (NO AVC)**

Use double sided servo tape, hook and loop tape or foam rubber to mount the SR415 receiver securely where it is protected and isolated from vibration.

**SRS6000 AVC RECEIVER INSTALLATION**

Install the SRS6000 receiver in the vehicle before binding the transmitter and receiver. The receiver can be mounted completely flat (label side up) or completely perpendicular on its side. When binding the receiver, the AVC system automatically detects the orientation of the receiver.

If the receiver is angled, AVC technology may not function properly. If the orientation of the receiver is modified after binding, you must rebind for AVC technology to function properly.

**IMPORTANT:** Do not use hook and loop tape to install the SRS6000 receiver. Using hook and loop tape will affect the performance of the AVC system.

**NOTICE:** Do not cut, kink, or modify the antenna. Damage to the coaxial portion of the antenna will reduce the performance of the antenna. Shortening or cutting off the 31mm tip may reduce the range to a small fraction of what it should be.

**AUX CHANNELS AND AVC TECHNOLOGY**

When AVC is active, the radio system will use the AUX 1 and AUX 2 channels for gain control. The AUX 1 and AUX 2 ports can be used in AVC mode to power a personal transponder, lights, drive servos, or operate auxiliary devices. AUX 1 will follow steering gain, and AUX 2 will follow throttle gain. AUX 1 and AUX 2 are not available for use in mixes when AVC is active. For an independent channel, use AUX 3.
IDENTIFYING CONTROLS AND SWITCHES

A: Trimmer Button A
   Default- Throttle Trim
B: Trimmer Button B
   Default- Steering Trim
C: Trimmer Button C
D: Trimmer Button D
E: Trimmer Button E
   Default- Steering Rate Up
F: Trimmer Button F
   Default- Brake Rate Up
G: Button G
   Default- Timer Start/Stop
H: Power Button
I: Roller Wheel
J: Antenna
K: Steering Wheel
L: Trigger (throttle/brake)
M: Battery Door
N: Data Port
O: LCD Screen
P: Back Button
Q: Clear Button

INSTALLING BATTERIES

1. Remove the battery cover from the bottom of the transmitter.
2. Install 4 AA batteries as shown.
3. Install the battery cover.

CAUTION: NEVER remove the transmitter batteries while the model is powered on. Loss of model control, damage or injury may occur.

MAIN SCREEN

The Main Screen displays information about the active model, including the Timer (when activated). To return to the Main Screen at any time, press and hold the scroll wheel for at least 6 seconds.

A: Transmitter Battery Voltage
B: Model Name
C: Steering Rate
D: Timer (when activated)
E: Position of Steering (STR) trim
F: Position of Throttle (THR) trim
G: Position of Brake (BRK) trim
H: Position of AUX 1 trim
I: Position of AUX 2 trim
J: Position of AUX 3 trim
NAVIGATION

USING THE SCROLL WHEEL SELECTOR

- Scroll the scroll wheel to move through the screen content or change programming values. Click the scroll wheel to make a selection.
- Use the Back Button to go back to go to the previous screen (for example, to go from the Mixing Screen to the Function List).
- Use the Clear Button to return a selected value on a screen to the default setting.
- The Main Screen appears when you power on the transmitter. Click the scroll wheel once to display the Function List.

INDIVIDUAL DIRECTION ADJUSTMENTS

In some instances, you may find it necessary to independently adjust the control directions; for example, if you want more travel for left steering than right steering, perform the following steps:

1. Scroll to the value you wish to change and click the scroll wheel.
2. When both directions are selected, move the control (steering or throttle) toward the control direction you wish to change. The selection box moves to the desired direction. You do not need to hold the control in the desired direction.
3. To change the opposite direction, simply move the control in that direction.
4. Click the scroll wheel to save the selection.

AUTO SWITCH SELECT

To easily select a switch in a function, such as a program mix, roll with the scroll wheel to highlight the switch selection box, and click the scroll wheel. The box around the switch should now flash. To select a switch, toggle the switch you wish to select. Verify the switch selection is now displayed as desired. When correct, click the scroll wheel to select this switch and complete the switch selection.

SWITCH SELECTION TIP

If the system won’t allow INHIBIT to be changed, all switches are assigned to a different function. Un-assign a switch from another function to free it up for selection.

The DX5C does not allow switch assignments to be over-loaded, there is only one switch to one function. Once a switch is configured for a function, the switch assignment for that function must be disabled for the switch to be used for something else.
MENU

Click the scroll wheel from the main screen to access the FUNCTION LIST. The FUNCTION LIST contains all the available menus on the DX5R. The functions include:

- Model Select
- Model Name
- Travel
- Sub Trim
- Reverse
- Speed
- Rates
- Exponential
- Timer
- Bind/Frame Rate
- Mixing
- AVC
- Trim Setup
- Aux Assign
- Settings
- Utilities

MODEL SELECT

Model Select enables you to access any of the 20 internal model memory locations in the Model Select list.

1. Scroll to the desired model memory in the Model Select list.
2. When the desired model memory is highlighted, click the scroll wheel once to select the model. The transmitter returns to the Main Screen.
3. Add a new model by scrolling to the bottom of the list. You will then be prompted with the Create New Model screen, with the option to create a new model or cancel. If you select Cancel, the system will return to the Model Select function. If you select Create, the new model will be created and now be available in the model select list.

⚠️ CAUTION: NEVER change the model in Model Select while operating a model. Changing the model memory interrupts the transmitter signal to the receiver and may cause loss of vehicle control, damage or personal injury.

MODEL NAME

Model Name enables you to assign a custom name to the current model memory. Model names can include up to 15 characters, including spaces.

To add letters to a Model Name:

1. Scroll to the desired letter position and click the scroll wheel once. A flashing box appears.
2. Scroll Up or Down until the desired character appears. Click the scroll wheel once to save the character.
3. Scroll to the next desired letter position. Repeat Steps 1 and 2 until the Model Name is complete.
4. Select Back Button to return to the MENU.

To erase a character(s):

5. Press the Clear button while the character is selected.
6. Press the Clear button a second time to erase all characters to the right of the cursor.
MENU

TRAVEL

The Servo Setup menu contains the following functions:

Travel sets the overall travel or endpoints of the servo arm movement. Travel values range from 0–150% (Default is 100%).

To adjust Travel values:
1. Scroll to the channel you wish to adjust and click the scroll wheel.
2. Scroll Up or Down to adjust the travel value. Click the scroll wheel to save the selection.

SUB-TRIM

Subtrim offsets the entire range of servo travel including the center and endpoint positions.

⚠️ CAUTION Use only small sub-trim values may affect travel if full servo travel is used.

REVERSE

Use the Reverse menu to reverse the channel direction. For example, if the Steering servo moves Left, reversing the channel will move the Steering servo Right.

To reverse a channel direction:
1. Scroll to Travel and click the scroll wheel. Scroll up or down until Reverse appears, then click the scroll wheel again to save the selection.
2. Scroll to the channel you wish to reverse and click the scroll wheel.

If you reverse the Throttle channel, a confirmation screen appears. Select YES to reverse the channel. A second screen appears, reminding you to bind your transmitter and receiver.

⚠️ CAUTION: Always rebind the transmitter and receiver after reversing the Throttle channel. Failure to do so will result in the throttle moving to full throttle if failsafe activates.

Always perform a control test after making adjustments to confirm the vehicle responds properly.

⚠️ CAUTION: After adjusting servos, always rebind the transmitter and receiver to set the failsafe position.

SPEED

The Speed menu enables you to slow the response time on any individual channel.

The Speed is adjustable from 100% to 1%.

To adjust the Speed:
1. Scroll to the channel you wish to adjust and click the scroll wheel.
2. Scroll Up or Down to adjust the speed and click the scroll wheel to save the selection.
3. Select a switch to activate/deactivate the function. If Switch ON is selected, the value will always be on for that function.
**MENU**

**RATES**
Rates allow the driver to reduce the travel (0-100%) of the Steering, Throttle, or Braking with a trimmer button. The Override option allows drivers to select a different rate value (0-125%) while holding down the assigned trimmer button. This is especially helpful for oval racers that program minimal steering throw to desensitize steering during racing, but requires maximum steering angle to drive out of a crash or get turned around on the track.

To adjust Rate values:
1. Scroll to Steering and click the scroll wheel to select between Steering, Throttle or Brake.
2. Scroll Up or Down to adjust the Rate value. Click the scroll wheel to save the selection.
3. Set the Switch setting to On to enable Rates, select Inh to disable Rates.
4. Select an Override rate and switch.
5. Select the OTF (On-The-Fly) trimmer that will be used to adjust Rates On-The-Fly.

**TIP:** In order for the OVERRIDE to operate, you must assign it to a switch or trimmer. The default position for this function is inhibited.

**EXPONENTIAL**
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 to make 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.

To adjust Expo values:
1. Select Throttle or Steering.
2. Scroll Up or Down to adjust the Rate value.
3. Click the scroll wheel to save the selection.
4. Select an OTF switch to activate Exponential.

**IMPORTANT:** Both positive and negative Expo values are available. A positive Expo value results in the center being less sensitive (desirable most of the time), while a negative value increases the sensitivity around center (normally not used).

**TIMER**
The DX5C Timer function allows you to program a countdown timer and stop watch (count up timer) to display on the main screen. An alarm sounds when the programmed time is reached. You can program the timer to start using the assigned switch position or automatically when the throttle moves above a pre-programmed position.
BIND/FRAME MENU

For compatibility with all types of servos, three frame rates are available:

- **11ms**: Offers good response rates and is compatible with most digital and analog servos (this is the default position). Works with DSMR® surface receivers.
- **16.5ms**: Needed for older analog servos. Works with DSM2® surface receivers.
- **22ms**: Needed for older analog servos. Works with DSMR receivers.

**TIP:** You should always use the fastest response rate the servos can handle. This gives the lowest latency and fastest response. If the frame rate is incompatible with the servo, the servo will move erratically or, in some cases, not at all. If this occurs, change the frame rate to the next highest value.

**NOTICE:** Always rebind after changing the Frame Rate.

Failsafe

In the unlikely event that the radio link is lost during use, the receiver will drive the throttle servo to its pre-programmed failsafe position (normally full brakes) and all other channels will have no servo output. The throttle failsafe position is set during binding. If the receiver is turned on prior to turning on the transmitter, the receiver will enter the failsafe mode, driving the throttle servo to its preset failsafe position. When the transmitter is turned on, normal control is resumed.

**IMPORTANT:** failsafe activates only in the event that signal is lost from the transmitter. Failsafe will NOT activate in the event that receiver battery power decreases below the recommended minimums or power to the receiver is lost.

**NOTICE:** AVC receivers must be calibrated after binding for proper operation.

Binding

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.

**Bind Process**

1. Use a bind plug or press the bind button to place the receiver into Bind mode. The LED on the receiver will begin to flash.
2. Power on the transmitter.
3. Select the Model Memory you wish to bind to.
4. Select Bind from the List menu.
5. Move the throttle channel to the desired failsafe position.

**NOTICE:** The throttle channel must stay in the failsafe position until binding is complete.

6. Scroll to Bind and click the scroll wheel. The orange LED flashes on top of the transmitter.
7. When the bind process is complete, the transmitter and receiver LEDs stop flashing and turn solid orange.
8. Remove the bind plug from the receiver and keep it in a convenient place.

**NOTICE:** Always remove the bind plug from the receiver when the bind Process is complete. Failure to do so will cause the receiver to enter bind mode the next time you power on the receiver.
MIXING

Mixes can connect two servo outputs to one control input. The DX5C features preset steering mixes and one programmable mix (Mix 0). The AUX channels can only be assigned to one mix at a time. If AUX 1, 2, or 3 is assigned to another mix, it will not be available as a slave channel option. AUX channels 1 and 2 are not available for use in mixes when the AVC menu in the transmitter is active.

STEERING MIX

The pre-configured Steering Mix options are for vehicles using two steering servos. For vehicles with servos independently controlling front and rear wheels, four-wheel steering (4WS) offers four different mixing options on one switch. The dual steering servo (Dual ST) mix is for vehicles with two servos working together on the front wheels.

4WS (4-Wheel Steering)

4WS options in the DX5C offer four different steering configurations using one switch; Crab, 4WS, front only, and rear only steering.

1. Select 4WS and click the scroll wheel.
2. To activate, select Inhibit and scroll to select the second steering channel. Select STR > AUX 1 and scroll to choose from AUX 1, AUX 2 or AUX 3 as the second steering (slave) channel.
3. Assign a switch or set the switch assignment to ON.
4. Each of the four steering options each needs to be assigned to a switch position to be enabled. Crab and 4WS options also need to have rates assigned.
   - Select Pos: and use the scroll wheel to choose the steering position (0-3). After the switch positions are assigned to the steering modes, the current switch selection will be indicated with a box around the steering mode.
   - For Crab and 4WS steering, a set of travel settings and a trim option for the second servo appear when the switch position setting (Pos:) is assigned to a switch position. Front only and Rear only steering options do not have rate or trim options.

  1. Use the scroll wheel to select the travel settings, turn the wheel to adjust travel for each side individually. Setting this value positive or negative determines the second servo direction.
  2. Use the scroll wheel to select the Trim option. Select active (Act) to carry over trim settings to the mixed (slave) steering channel. Leave Inh if the trim should only adjust the primary steering channel.

2 Servo (Dual Steering)

1. Select STEERING in the Mixing screen and click the scroll wheel.
2. Select 2 SERVO and click the scroll wheel.
3. To activate, select Inhibit and scroll to select STR > AUX 1. Select AUX 1, AUX 2 or AUX 3 for the second steering (slave) channel.

PROGRAMMABLE MIX

A freely assignable mix allows drivers to set up a second (Slave) channel to follow a primary (Master) channel.

1. Select Mix 0 and click the scroll wheel. In the mixing menu, select Mix 0 to rename the mix.
2. To activate, select a Master and Slave channel and assign the Rate.
   - Select Inhibit under Master and scroll to select the Master (input) channel.
   - Select Inhibit under Slave and scroll to select the Slave (output) channel.
   - Rate settings define travel limits and direction. Move the input channel (steering wheel, throttle, or whatever function is assigned to the master channel) to adjust the rate for each side of the slave channel travel. Setting this value positive or negative determines the slave servo direction.
3. Select Switch; Inh will disable the mix, ON will activate the mix, or a switch can be assigned to turn the mix on and off.
4. Set Trim to Act or Inh (Default). When Trim is Active, adjustments to the Master trim carries over to the Slave channel.
MENU

AVC PROGRAMMING MENU
The DX5C includes a menu specific to AVC operation. This menu manages AUX 1 and AUX 2 operation and tailors it for AVC technology use. The AVC menu also controls the Priority features. See page 18 for more information on AVC tuning.

To activate the AVC menu:
1. Select AVC in the main menu.
2. Select Switch and use the scroll wheel to select On to enable the AVC menu.
3. Change the gain and priority values to suit the vehicle.
4. To fine tune each value during use without having to access the programming menu, assign a trimmer to the On-The-Fly (OTF) feature for each AVC value.

   Click on the arrow to the right of the switch selection to set the trimmer to increase or decrease the gain from the set value.

   Tip: Trimmers can only be assigned to one OTF function. Steering and throttle gain values cannot be adjusted from one trimmer button.

   Tip: For receivers without AVC, leave the AVC menu in the DX5C inhibited (INH).

   NOTICE: If the SRS6000 receiver is bound with a single bind plug, and no bind plug in the disable port, it will be in AVC mode.
   If the AVC feature in the receiver is active and the AVC menu in the transmitter is Inhibited, AVC functions will default to the AUX 1 and AUX 2 operation, and in this scenario, AVC will not work correctly.

   Selecting INH in the AVC menu alone will not disable AVC. See Disabling the Stability Assist Function on page 17.

TRIM SETUP
Trim Setup affects the amount the servo travels with each click of the trim, but has no effect on the total trim travel. The trim steps range from 1 to 20 (Default is 9).

   To adjust the trim steps:
   1. Select channels to edit.
   2. Scroll Up or Down to adjust the step value.
   3. Click the scroll wheel to save the selection.

TRIM ASSIGN
Trim ASSIGN allows for the assigning of a switch to the Steering or Throttle trims.

   1. From within Trim Setup, select NEXT.
   2. Select channels to assign a switch to.
   3. Scroll Up/Down or toggle a switch/button to assign.
   4. Click the scroll wheel to save the selection.

AUX ASSIGN
Channel Assign allows for the assigning of a switch or trimmer as input to an AUX channel.

   Channel assign:
   1. Select a channel to edit. Click the scroll wheel to save the selection.
   2. Scroll Up/Down or toggle a switch/button to assign.
   3. Click the scroll wheel to save the selection.
SETTNGS
System settings allow adjustments to the following transmitter settings:

- **Display**
  - User Name
    - The User Name field displays the user name above the model name on the main screen.
    1. Scroll to the desired letter position and click the scroll wheel once. A flashing box appears.
    2. Scroll Up or Down until the desired character appears. Click the scroll wheel once to save the character.
    3. Scroll to the next desired letter position. Repeat Steps 1 and 2 until the Model Name is complete.

- **Language:**
  - Change the transmitter’s language. The transmitter will retain the language for models already created. New models will be created using the currently selected language.

- **Contrast**
  - To adjust the screen contrast:
    1. Scroll to Contrast and click the scroll wheel.
    2. Scroll Up or Down to adjust the contrast value. Lower numbers lighten the contrast, higher numbers darken it.
    3. Click the scroll wheel once to save the selection.

- **Inactive Alarm:**
  - An alarm activates if the transmitter sees a period of inactivity for a certain amount of time. The alarm is helpful in reminding you to power off the transmitter and avoiding a situation where the transmitter battery completely discharges.
    - Inh (No alarm sounds)
    - 10 min (Default)
    - 60 min
    - 5 min
    - 30 min

- **Trims**
  - Assign Trims to any trimmer or switch on the transmitter.
    1. Select the Trim position from the list.
    2. Push the scroll wheel once to select the position.
    3. Scroll to select the Trim desired in that position.
    4. Click the scroll wheel to save the selection.

- **Sound settings**
  - Turn system sounds ON/OFF.
    1. Select the sound from the list.
    2. Push the scroll wheel once to Activate/Inhibit.
    3. Click the scroll wheel to save the selection.

    **TIP:** Try deactivating the Roller sounds but leave the Keyclick active.

- **About**
  - Displays the transmitter’s Serial Number. Start a user account at SpektrumRC.com and enter the serial number displayed on the About page to register the transmitter.
**MENU**

**SETTINGS (CONTINUED)**

**CALIBRATE**

Use this menu to calibrate controls. After making physical changes to the transmitter, such as changing the wheel, calibrate the transmitter.

1. Move the Steering Wheel, Throttle/Brake and the knob from stop to stop.
2. Save when finished or cancel to go back.

**UTILITIES**

Press and hold the scroll wheel while powering on the transmitter to show the System Setup list. No radio transmission occurs when a System Setup screen is displayed, preventing accidental damage to linkages and servos during changes to programming.

The System Setup menu can also be accessed from the Function list. A CAUTION screen will appear that warns that RF will be disabled (the transmitter will no longer transmit). Press YES to access the System List. If no selection is made, the system will exit to the main screen within approximately 10 seconds.

**MODEL SELECT**

Model Select enables you to access any of the 20 internal model memory locations in the Model Select list.

1. Scroll to the desired model memory in the Model Select list.
2. When the desired model memory is highlighted, click the scroll wheel once to select the model. The transmitter returns to the Main Screen.
3. Add a new model by rolling to the bottom of the list. You will then be prompted with the Create New Model screen.

**CAUTION:** NEVER change the model in Model Select while operating a model. Changing the model memory interrupts the transmitter signal to the receiver and may cause loss of vehicle control, damage or personal injury.

**MODEL UTILITIES**

In the Model Utilities function you can create a new model, delete a model, copy a model, reset a model to default settings and sort the model list. If the DX5C is updated, use the Validate All selection to ensure model settings are updated to be fully compatible with the new firmware. The Delete All selection will delete all model settings.
UTILITIES

MODEL UTILITIES (CONTINUED)

Create New Model

1. Select the CREATE NEW MODEL and click the scroll wheel.
2. Select CREATE to create a new model or CANCEL to go back.
3. The new model is available in the model select list.

**CAUTION:** NEVER change the model in Model Select while operating a model. Changing the model memory interrupts the transmitter signal to the receiver and may cause loss of vehicle control, damage or personal injury.

Delete Model

Use this selection to permanently delete a model from the model select list. If you do not wish to delete a model, select Cancel to exit the page.

1. To delete a model, highlight the model listed. Press the scroll wheel, then roll to the model name. Click the scroll wheel to select the model.
2. Select DELETE to delete the model.

Model copy

The Model Copy menu enables you to duplicate model programming from one Model List location to another. Use Model Copy to:

- Save a default model copy before experimenting with programming values
- Expedite programming for a model using a similar programming setup

**IMPORTANT:** Copying a model program from one model memory to another will erase any programming in the “To” model memory.

To copy model programming:

1. Select where to save the copied memory by selecting “TO” and scroll to ADD NEW MODEL. Click the scroll wheel once to save the selection. To save over a current model, select that model from the list.
2. Select the model to be copied by selecting “From” and scroll to the model to be copied.
3. Scroll down to COPY at the bottom of the screen and click the scroll wheel once.
4. Confirm the copy by selecting COPY or CANCEL to go back.

Reset Model

Use the Model Reset menu to delete all model programming in the active model memory. Reset returns all model settings to the default settings and erases all programming in the selected model.

**IMPORTANT:** After a model reset, it is necessary to re-bind.

Sort Model List

With this function you can sort the model order in the model select function. This is helpful to group similar models together to make them easy to find. To move a model, highlight the model that you wish to move with the scroll wheel, then click the scroll wheel to select it. Scroll the scroll wheel to move the selected model to the position desired. Click the scroll wheel when you have the model in the position desired.
PHYSICAL TRANSMITTER ADJUSTMENTS

STANDARD WHEEL CONVERSION
- Using a 1.5mm hex wrench, remove the steering wheel.
- Re-install the steering wheel.

STEERING TENSION ADJUSTMENT
Turn the screw clockwise with a small Phillips screw driver to increase the steering tension.

DATA PORT
The data port gives drivers access to future updates. Registering the transmitter is necessary for updates. Updates require the SPMA3065 updater cable (not included and a PC).
BINDING THE INCLUDED RECEIVER

BINDING THE SR415 RECEIVER (NO AVC)

1. Insert a bind plug in the receiver’s BIND port.
2. Power on the receiver and wait until the receiver LED begins flashing.
3. Power on the transmitter.
4. Select the Model Memory.
5. Select Bind from the List menu.
6. Move the throttle channel to the desired failsafe position.
7. Scroll to Bind and press the Rolling Selector. The orange LED flashes on top of the transmitter.

When the bind process is complete, the transmitter and receiver LEDs stop flashing and turn solid orange.

BINDING AND CALIBRATING THE SRS6000 RECEIVER WITH AVC® TECHNOLOGY

AVC technology requires at least 80% travel on steering and throttle in all directions to complete calibration. If you have reduced travel to below 80%, you must increase the travel above 80% to complete calibration.

For vehicles with a mechanical brake, very little servo travel is used to apply braking force. In this case it is common to reduce throttle travel for braking well below 80%. To calibrate a vehicle with a mechanical brake, increase the brake travel above 80% whenever the vehicle is calibrated (bound), then change the braking travel back to the travel setting for your brakes.

NOTICE: The following sequence of steps must be followed in order for AVC technology to function properly.

1. Insert the Bind Plug in the BIND port on the receiver.
2. Power on the receiver. The orange LED flashes, indicating the receiver is in bind mode.
3. Center the ST TRIM and TH TRIM on the transmitter.
4. Put your transmitter in bind mode.
5. The bind process is complete when the orange LED on the receiver is solid.
6. Pull the transmitter trigger to Full Throttle, pause, then return the trigger to center.
7. Push the transmitter trigger to Full Brake, pause, then return the trigger to center.
8. Turn the transmitter steering wheel to Full Right, pause, then return the wheel to center.
9. Turn the transmitter steering wheel to Full Left, pause, then return the steering wheel to center. The orange LED flashes to confirm the settings have been accepted.
10. Turn off the vehicle, and remove the bind plug once the calibration and binding process is complete.
11. Power off the transmitter.

NOTICE: You must calibrate the SRS6000 receiver each time it is placed in bind mode.

NOTICE: You must rebind the transmitter and receiver if you:
- Change the servo reversing after binding
- Change the travel after binding
- Want to use the receiver with a different model memory

If you change the servo reversing or travel adjust after binding, AVC will not work properly.

DISABLING AVC TECHNOLOGY IN THE SRS6000

For sanctioned racing, bind the receiver with a second bind plug inserted into the disable port to disable AVC technology. This must be done before and during binding for AVC to be disabled. Inserting the bind plug in the disable port after binding will have no effect. The receiver will display a slow consistent flash to indicate AVC is disabled.
AVC TUNING

A value from 0 to 100 is used for three settings that affect tuning; steering gain, throttle gain, and priority. These values configure the receiver to your vehicle so you can tune it for optimal performance based on your driving style. It is normal for gain and priority tuning results to vary.

WHAT IS GAIN?
A gain value of 0 will result in zero electronic corrections, and a gain of 100 will result in large corrections in an effort to hold a straight line.
- Steering gain tells the receiver how strongly to assist steering when the vehicle begins to spin out of control.
- Throttle gain tells the receiver how much it can assist on the throttle when the vehicle begins to spin out of control.
Default gain values are 50. We recommend adjusting gain values 5 points at a time. Fine tune the settings with smaller increments as desired performance is achieved. Avoid large increases to steering gain values between tests.

WHAT IS PRIORITY?
Priority tells the receiver how much you want to be able to override the electronic stability with your steering commands. A low priority means AVC will make steering corrections when you turn wheel all the way. A high priority will reduce AVC the more you turn the wheel. The default priority value is 100. This means when you turn the steering wheel to the limit, the gain is reduced to zero. This value will work well for a majority of drivers.

WHAT IS HEADING HOLD?
Heading hold maintains the selected vehicle direction. It is normal to see the wheels steer in the same direction it was last pointed. If a vehicle with AVC technology is lifted off the ground and turned from side to side, the wheels will steer in an effort to get back to the original heading. When driving, heading hold only works when the steering wheel is left straight. The moment you begin to turn the wheel, heading hold turns off. When the wheel is re-centered, heading hold is turned back on.

AVC TUNING PROCEDURE
1. With the transmitter and receiver already bound and properly calibrated, turn on the transmitter and vehicle.
2. Apply throttle, do not turn the steering wheel, and observe how well the vehicle can maintain a straight line at high speed.
   - If the vehicle does not make enough steering corrections to maintain a straight line, increase the steering gain.
   - If the vehicle fishtails due to wheel-spin, increase the throttle gain.
   - If the vehicle wobbles (oscillates), reduce the steering gain.
   The maximum gain values that prevent oscillations at high speed should not be exceeded.
3. Drive the vehicle through accelerated turns and observe how it responds.
   - If the vehicle slows down going into a turn, reduce the throttle gain.
   - To allow the vehicle to slide more with intentional wheel-spin, reduce the throttle gain.
   - To improve traction in slick conditions, increase throttle gain.
   - If the vehicle won’t turn-in, increase the priority.
   - If the vehicle spins out, there are two tuning options to consider;
     1. Increasing throttle gain will help correct for undesirable wheel-spin when the vehicle over-rotates.
     2. Reducing priority will give the receiver more authority to help correct oversteer.

GENERAL TUNING TIPS
For beginner drivers, looser conditions, and vehicles with excessive power, more gain will be helpful.
For terrain with more grip and increased speeds, tuning will result in lower steering gain values.

CHANGE BATTERY VOLTAGE
If the voltage is increased, the maximum steering gain setting will have to be reduced.
At the same time, when increasing voltage, increased throttle gain will help manage the extra power.
For example: If a truck set up for 2S is upgraded to 3S, the truck may oscillate at high speeds on 3S, requiring steering gain to be reduced. Throttle gain will have a bigger effect on 3S, so increasing throttle gain may be beneficial.
## TROUBLESHOOTING GUIDE

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>The system will not connect</td>
<td>Transmitter and receiver too near each other</td>
<td>Move transmitter 8 to 12 feet (2.4 to 3.6m) from receiver</td>
</tr>
<tr>
<td></td>
<td>Transmitter and receiver too near large metal objects (vehicles, etc.)</td>
<td>Move away from large metal objects (vehicles, etc.)</td>
</tr>
<tr>
<td></td>
<td>Selected model is not bound in transmitter</td>
<td>Make sure correct model memory is selected and that transmitter is bound to the model</td>
</tr>
<tr>
<td></td>
<td>Transmitter accidentally put in bind mode so receiver is no longer bound</td>
<td>Rebind transmitter and receiver</td>
</tr>
<tr>
<td></td>
<td>Bind plug left installed in bind port</td>
<td>Rebind transmitter to the vehicle and remove the bind plug before cycling power</td>
</tr>
<tr>
<td></td>
<td>Vehicle battery/Transmitter battery charge is too low</td>
<td>Replace/recharge batteries</td>
</tr>
<tr>
<td></td>
<td>The receiver goes into failsafe mode a short distance away from the transmitter</td>
<td>Replace or contact Horizon product Support</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check the receiver antenna to be sure it is not cut or damaged</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Make sure receiver antenna is in an antenna tube and is above vehicle</td>
</tr>
<tr>
<td></td>
<td>Receiver quits responding during operation</td>
<td>Low battery voltage</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Loose or damaged wires or connectors between battery and receiver</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Transmitter accidentally put in bind mode, ending bind to receiver</td>
</tr>
<tr>
<td></td>
<td>Receiver loses its bind</td>
<td>Buttons and/or switches are already assigned to another function</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Function requires a switch or trimmer, buttons have limited functionality</td>
</tr>
</tbody>
</table>

### AVC TROUBLESHOOTING GUIDE

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Oscillates (wobbles or shakes) at high speeds</td>
<td>Steering gain is too high</td>
<td>Reduce steering gain</td>
</tr>
<tr>
<td>Vehicle responds strangely to controls</td>
<td>Receiver not properly calibrated</td>
<td>Confirm servo direction and travel are correct, then re-bind and re-calibrate the receiver</td>
</tr>
<tr>
<td></td>
<td>Vehicle setup changed after calibration</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Receiver not mounted level</td>
<td>Confirm the receiver is truly flat, it cannot be mounted at an odd angle.</td>
</tr>
<tr>
<td>Receiver won’t finish the calibration</td>
<td>Travel adjust is below 80% on steering or throttle</td>
<td>Increase travel adjust and recalibrate. See page 19 for more information about setting up vehicles with a mechanical brake.</td>
</tr>
<tr>
<td>Driver expects AVC should be turned off, but it is still turned on</td>
<td>AVC menu is inhibited, but AUX values are at neutral, which works out to 50% gain but with no priority.</td>
<td>Bind with second bind plug in the disable port, or change AVC menu to on and set all gain values to 0</td>
</tr>
<tr>
<td></td>
<td>Second bind plug to disable AVC was inserted after binding</td>
<td>Re-bind with the second bind plug in the disable port</td>
</tr>
</tbody>
</table>

## OPTIONAL PARTS LIST

<table>
<thead>
<tr>
<th>PART #</th>
<th>PARTS DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM6719</td>
<td>Spektrum DX6R Transmitter Case</td>
</tr>
</tbody>
</table>

Additional optional parts and details are available at SpektrumRC.com
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, 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.

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.

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. 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.

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## WARRANTY AND SERVICE CONTACT INFORMATION

<table>
<thead>
<tr>
<th>Country of Purchase</th>
<th>Horizon Hobby</th>
<th>Contact Information</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States of America</td>
<td>Horizon Service Center (Repairs and Repair Requests)</td>
<td>servicecenter.horizonhobby.com/RequestForm/</td>
<td>4105 Fieldstone Rd Champaign, Illinois, 61822 USA</td>
</tr>
<tr>
<td></td>
<td>Horizon Product Support (Product Technical Assistance)</td>
<td><a href="mailto:productsupport@horizonhobby.com">productsupport@horizonhobby.com</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sales</td>
<td><a href="mailto:wesales@horizonhobby.com">wesales@horizonhobby.com</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>800-338-4639</td>
<td></td>
</tr>
<tr>
<td>EU</td>
<td>Horizon Technischer Service</td>
<td><a href="mailto:service@horizonhobby.eu">service@horizonhobby.eu</a></td>
<td>Hanskampring 9 D 22885 Barsbüttel, Germany</td>
</tr>
</tbody>
</table>

### FCC INFORMATION

**SPM5100: Contains FCC ID: BRWDAMTX12**

**FCC ID: BRWDASRX12**

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.
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.

### IC INFORMATION

**SPM5100: Contains IC: 6157A-AMTX12**

**IC: 6157A-AMRX12**

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

### COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

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

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

Instructions for disposal of WEEE by users in the European Union

This product must not be disposed of with other waste. Instead, it is the user’s responsibility to dispose of their waste equipment by handing it over to a designated collections 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.