

RRSCT
TWENTYTWO

**READY TO
COMPETE™**

TLR
TEAM LOSI RACING

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 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 use with incompatible components or alter this product in any way outside of the instructions provided by 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.

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

ADDITIONAL SAFETY PRECAUTIONS AND WARNINGS

- Always keep a safe distance in all directions around your model to avoid collisions or injury. This model is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
- Always operate your model in open spaces away from full-size vehicles, traffic and people.
- Always carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.).
- Always keep all chemicals, small parts and anything electrical out of the reach of children.
- Always avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture causes damage to electronics.
- Never place any portion of the model in your mouth as it could cause serious injury or even death.
- Never operate your model with low transmitter batteries.

To register your product online, visit www.tlrcing.com

Thank you for purchasing the Team Losi Racing™ Ready To Compete™ (RTC™) 22™SCT. We are confident you will be satisfied with the performance of this durable high-performance vehicle. Please read the entire manual before setting up and using your vehicle.

France RF Setting

The DX2E has a France RF setting that complies with French regulations. When in France, always use the France power setting when operating the transmitter outdoors. See page 3 for more information.

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- 1/10-Scale Ready To Compete 22SCT
- Spektrum™ DX2L 2.4GHz DSM® Radio System (SPMR2400)
- Spektrum SR3520 DSM2® 3-Channel Micro Race Receiver (SPMSR3520)
- Dynamite® Platinum Sensored Brushless ESC, 13.5T Limit (DYNP1001)
- Dynamite Platinum 17.5T Sensored Brushless Motor (DYNP1017)
- Extra High-Torque Servo (LOS0812)
- 4 AA batteries (for transmitter)



TOOLS INCLUDED

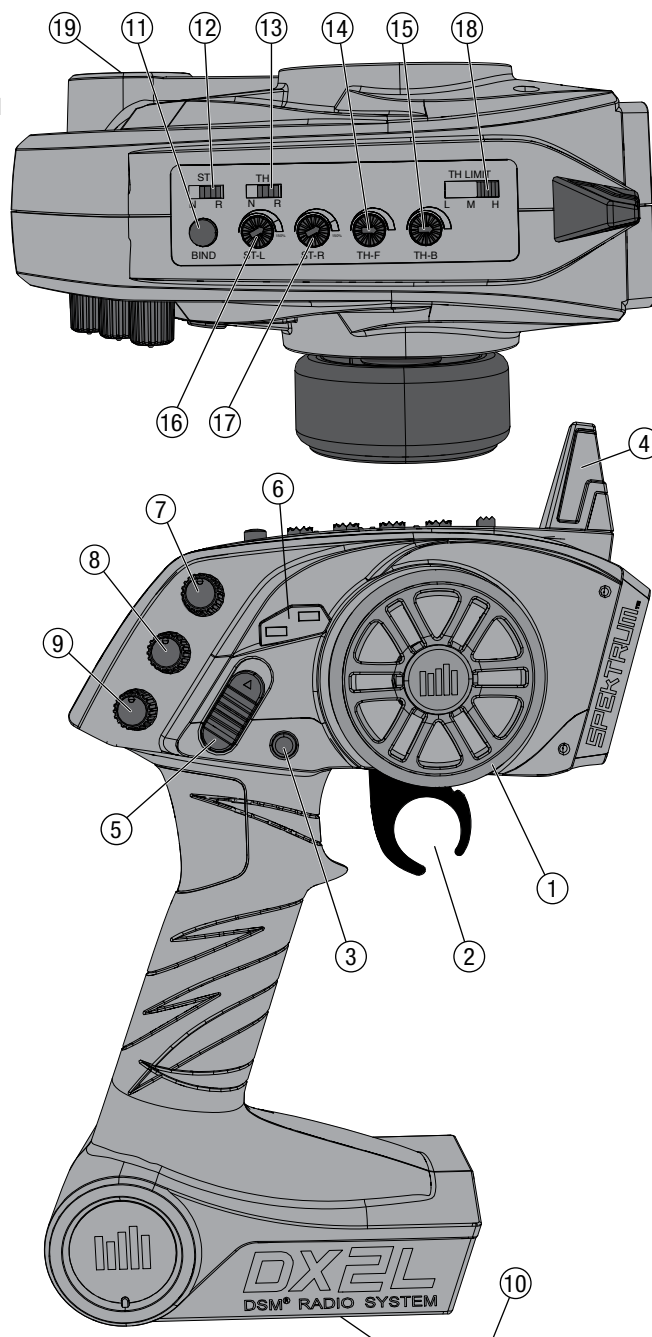
- 4-Way wrench
- Transmitter/Receiver BIND Plug
- 3 Hex Wrench "L" shaped
-1.5mm, 2.0mm and 2.5mm
- Flat Turnbuckle Wrench
- Shock Tools

NEEDED TO COMPLETE

- 7.4V 2S Li-Po Battery Pack
- Li-Po Battery Charger
- Li-Po Charge Protection Bag (DYN1405)

SPEKTRUM DX2L TRANSMITTER

1. **Steering Wheel** controls direction (left/right) of the model
2. **Throttle Trigger** controls speed and direction (forward/brake/reverse) of the model
3. **R.O.S.S. Button** used with vehicles featuring the R.O.S.S. Remote Start System
4. **Antenna** transmits the signal to the model
5. **ON/OFF Switch** turns the power ON/OFF for the transmitter
6. **Indicator Lights**
 - Solid green light indicates adequate battery power.
 - Flashing green light indicates the battery voltage is critically low. Replace batteries.
 - Solid red light indicates good signal strength. When the red light fades, signal strength is weakening.
7. **ST. Trim** adjusts the "hands off" direction of the model
8. **TH. Trim** adjusts the motor speed to stop at neutral
9. **Steering Dual Rate** adjusts the amount the front wheels move when the steering wheel is turned left and right
10. **Battery Cover** covers and holds the batteries that power the transmitter
11. **BIND Button** puts the transmitter into Bind Mode
12. **ST. REV** reverses the function of the steering when the wheel is turned left or right
13. **TH. REV** reverses the function of the speed control when pulled back or pushed forward
14. **TH-F – Forward Endpoint** – adjusts the amount of full throttle
15. **TH-B – Brake Endpoint** – adjusts the amount of full brake
16. **ST-L – Steering Left Endpoint** – adjusts the amount of left steering travel
17. **ST-R – Steering Right Endpoint** – adjusts the amount of right steering travel
18. **Throttle Limiter** limits the throttle to Low (50%), Medium (75%) or High (full throttle is equal to the high Throttle Travel position)
19. **Bind Plug Compartment**



CHANGING THE RF MODE

The DX2L has a France RF Mode that complies with French regulations. The DX2L must be in France mode when used outdoors in France. At all other times, the transmitter should be in Standard mode.

France Mode ON

Turn the wheel full left, pull the trigger full throttle and hold down the bind button while turning on the transmitter. The red LED will flash twice.

France Mode OFF (Standard Mode)

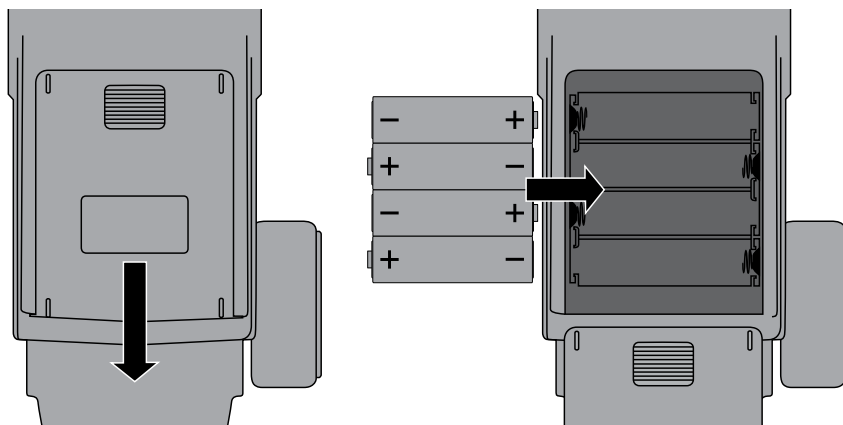
Turn the wheel full right, pull the trigger full throttle and hold down the bind button while turning on the transmitter. The red LED will flash once.

INSTALLING BATTERIES

1. Push in the battery cover a small amount to release the retaining tab, then remove the cover.
2. Install 4 AA batteries, taking care to align the battery polarity to the diagram in the transmitter's battery case.
3. Carefully re-install the battery cover by aligning the tabs with the slots on the transmitter.

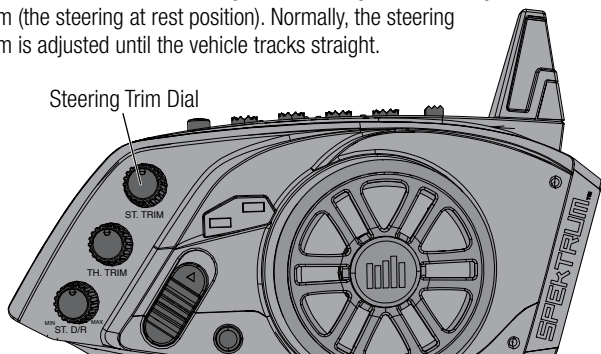


CAUTION: Do not remove the transmitter batteries while the model is powered on or while operating, as a loss of model control, damage or injury can result.

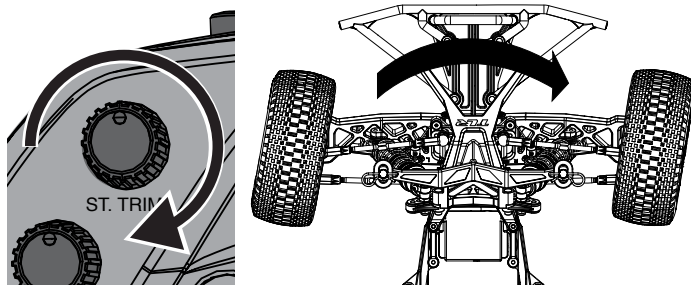


ADJUSTING THE STEERING TRIM

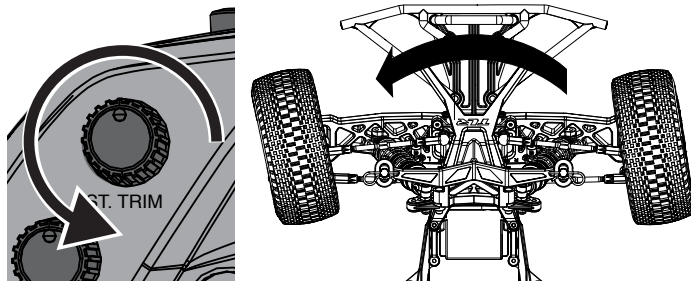
The steering trim dial is used to adjust the steering trim when the wheel is centered. Rotating the dial changes the steering trim (the steering at rest position). Normally, the steering trim is adjusted until the vehicle tracks straight.



As you adjust steering trim to the right, the wheels move to the right.

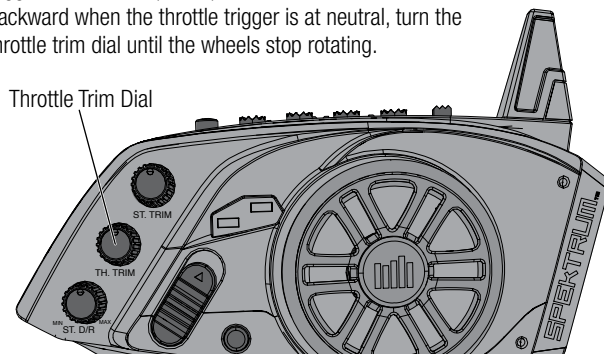


As you adjust steering trim to the left, the wheels move to the left.



ADJUSTING THE THROTTLE TRIM

The throttle trim dial adjusts the throttle trim when the throttle trigger is at neutral (center). If the wheels rotate forward or backward when the throttle trigger is at neutral, turn the throttle trim dial until the wheels stop rotating.



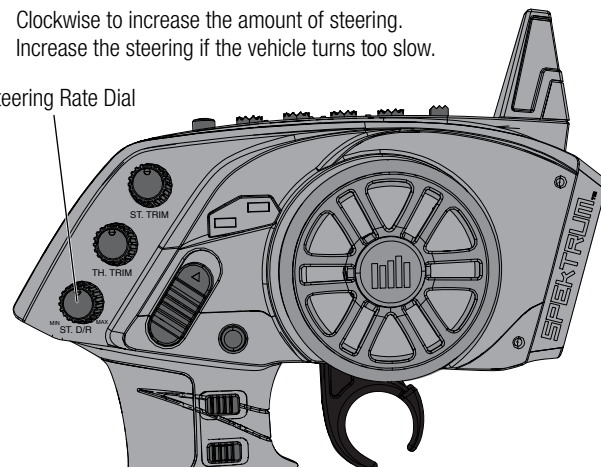
ADJUSTING THE STEERING RATE

Steering rate allows you to change how far the wheels turn when you move the steering wheel. The steering rate range is 20%–100%.

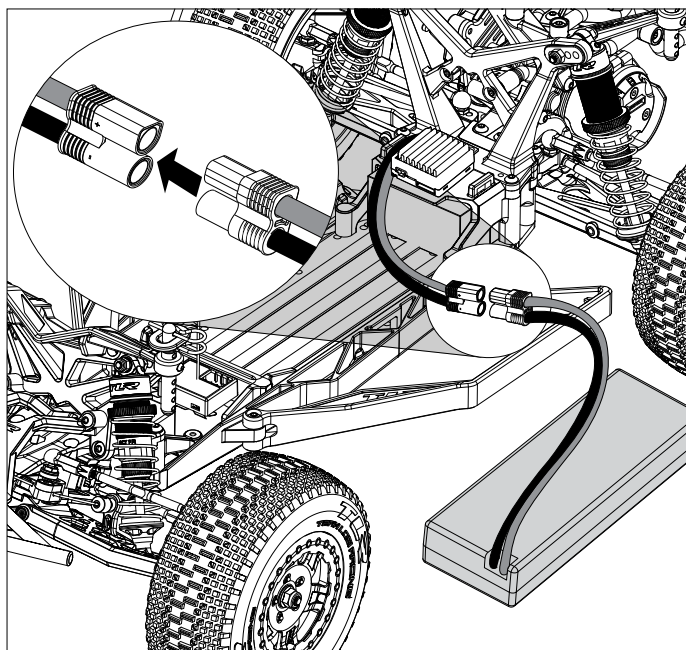
Turn the steering rate dial:

- Counterclockwise to reduce the amount of steering. Reduce the steering if the vehicle turns too fast.
- Clockwise to increase the amount of steering. Increase the steering if the vehicle turns too slow.

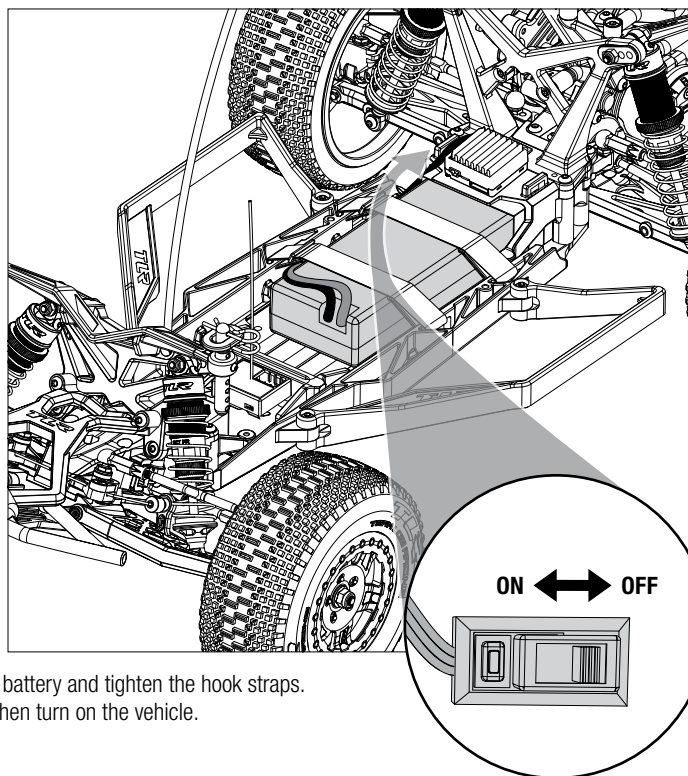
Steering Rate Dial



INSTALLING THE BATTERY

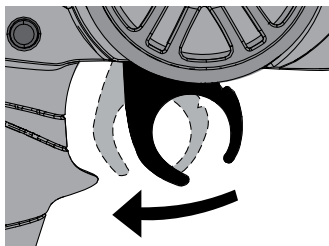


To install the battery pack, loosen the hook and loop straps. Insert the fully charged battery and tighten the hook straps. Connect the blue EC3™ battery connector to the ESC. Turn the transmitter on first, then turn on the vehicle.

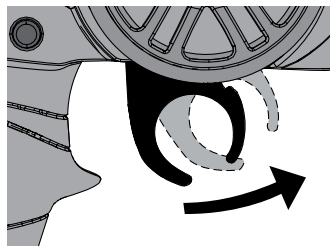


CONTROL TEST

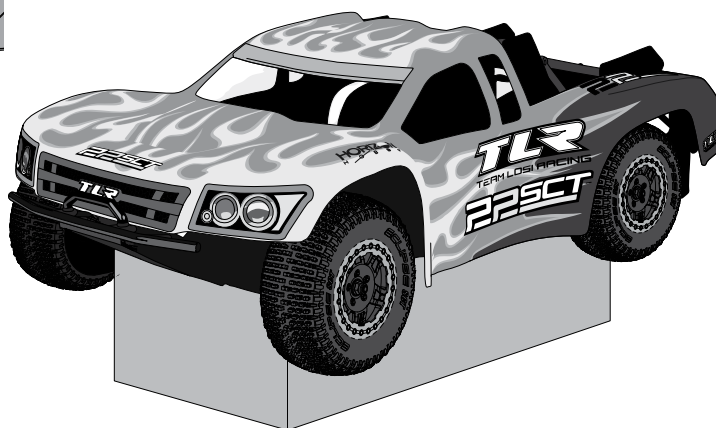
FORWARD



BRAKE/REVERSE



Perform a control test with the vehicle wheels off the ground. If the tires rotate after the vehicle is powered-on, adjust the “TH. Trim” knob located to the lower left of the steering wheel until they stop. To make the wheels move forward, pull the trigger. To reverse the wheels, wait for the model to stop, then push the trigger. When moving forward, the wheels should track in a straight line without any steering wheel input. If not, adjust the “ST. Trim” so the wheels track in a straight line without having to turn the steering wheel.



DRIVING PRECAUTIONS

- Maintain sight of the vehicle at all times.
- Inspect the vehicle for loose wheel hardware.
- Inspect the steering assembly for any loose hardware. Driving the vehicle off-road can cause fasteners to loosen over time.
- Do not drive the vehicle in tall grass. Doing so can damage the vehicle or electronics.
- Stop driving the vehicle when you notice a lack of power. Driving the vehicle when the battery is discharged can cause the receiver to power off. You may lose control of the vehicle.



CAUTION: Do not discharge a LiPo battery below 3V per cell. Batteries discharged to a voltage lower than the lowest approved voltage may become damaged, resulting in loss of performance and potential fire when batteries are charged.

- Do not apply the throttle in forward or reverse if the vehicle is stuck. Applying throttle in this instance can damage the motor or ESC.
- After driving the vehicle, allow the electronics to cool to ambient temperature before using the next battery pack.

RUN TIME

The largest factor in run time is the capacity of the battery pack. A larger mAh rating increases the amount of run time experienced. The condition of a battery pack is also an important factor in both run time and speed. The battery connectors may become hot during driving. Batteries will lose performance and capacity over time.

Driving the vehicle from a stop to full speed repeatedly will damage the batteries and electronics over time. Sudden acceleration will also lead to shorter run times.

TO IMPROVE RUN TIMES

- Keep your vehicle clean and maintained.
- Allow more airflow to the ESC and Motor.
- Change the gearing to a lower ratio. A lower ratio lowers the operating temperature of the electronics. Use a smaller pinion gear or larger spur gear to lower the gear ratio.
- Use a battery pack with a higher mAh rating.
- Use the optimum charger to charge battery packs (Visit your local hobby dealer for more information).

TUNING, ADJUSTING & MAINTAINING YOUR VEHICLE

- Examine your vehicle on a regular basis.
- Use a brush to remove dirt and dust.
- Look for damage to the suspension arms and other molded parts.
- Re-glue the tires to the wheels, if necessary.
- Use suitable tools to tighten fasteners.
- Make sure the camber and steering linkages are not bent. Replace any bent linkages.
- Adjust the Toe and Camber settings, if necessary.
- Remove the shocks and inspect them for damage. Rebuild the shocks if oil is leaking.
- Inspect electronics and batteries for exposed wires. Repair exposed wires with shrink-wrap, or replace the wire.
- Make sure the ESC and receiver are secure on the chassis. Replace the double-sided tape, if necessary.
- Power on the transmitter. If the green LED is dim or off, replace the AA batteries in your transmitter.
- Check the spur gear for wear.

SERVICE/REPAIR

RADIO/SPEED CONTROL & MOTOR

If any problems other than those covered in the troubleshooting section arise, please call the appropriate electronics service department. They will be able to give the problem additional specific attention and provide instructions for the solution.

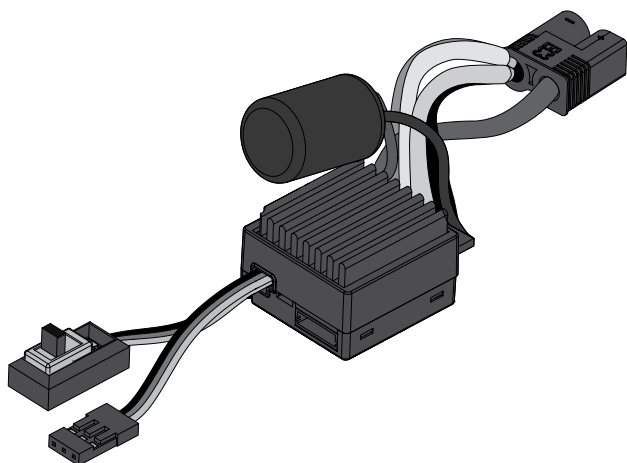
MAINTENANCE

If any questions other than those covered in the troubleshooting or maintenance sections arise, please call the appropriate Horizon product support department.

CLEANING

Performance can be hindered if dirt gets in any of the moving suspension parts. Use compressed air, a soft paintbrush, or a toothbrush to remove dust or dirt. Avoid using solvents or chemicals as they can actually wash dirt into the bearings or moving parts, as well as cause damage to the electronics.

RECALIBRATING AND ADJUSTING THE ESC (DYNP1001)



PREPARING THE TRANSMITTER

1. Make sure the transmitter batteries are fully charged.
2. Power the transmitter on.
3. Set the Travel Adjust to the maximum value in the forward and reverse directions. If your transmitter has an adjustable throttle trigger, please select 70/30.
4. Make sure the throttle channel reversing is set to NORMAL.
5. Center the throttle trim and make sure any sub-trims are set to 0.

CONNECTING THE BATTERY TO THE ESC

1. Make sure the ESC power switch is in the OFF position.
2. Connect the blue EC3 battery connector to the ESC.
3. Power the transmitter on.
4. Power the ESC on.

USING REVERSE

1. Apply brake.
2. Return the throttle to neutral when the vehicle comes to a stop.
3. Apply brake again. Reverse is now active.

NOTICE: There is no delay when changing from Reverse to Forward. Not allowing the vehicle to stop before changing from Reverse to Forward may cause damage to the vehicle gearing, motor or both.

ONE-TOUCH CALIBRATION

The motor does not receive power when the ESC is in programming or calibration mode.

1. Power ON the transmitter.
2. Press and hold the Setup button while powering ON the ESC.
3. Release the Setup button when the blue LED turns on.
4. Move the throttle trigger to full throttle. Hold full throttle until the blue LED turns solid, confirming the forward endpoint position.
5. Move the throttle trigger to full brake/reverse. Hold full brake/reverse until the red LED turns solid, confirming the brake/reverse endpoint position.
6. Return the throttle to neutral. The calibration is complete when both blue and red LEDs turn solid.

ESC PROGRAMMING

The motor does not receive power when the ESC is in programming or calibration mode.

1. Power ON the transmitter, then power ON the ESC.
2. Press and hold the Setup button for 3 seconds. Continue to hold the button.
3. After 8 seconds, the blue LED will flash 1 time, then pause. The blue LED will flash 2 times, then pause. The blue LED will flash 3 times, then pause. The blue LED will flash 4 times, then pause. The blue LED will flash 5 times, then pause. To enter a menu, release the Setup button during the pause following the number of blue LED flashes that match the desired menu.

4. The red LED flashes when you enter a menu. The number of flashes corresponds to the current selection.
5. Quickly press the Setup button to change the menu option.
6. After you select a menu option, press and hold the Setup button to confirm the selection.

The black-shaded setting is the factory default.

MAIN MENU

NUMBER OF GREEN FLASHES	MENU
1	Battery Type
2	Drive Type
3	Beginner Mode
4	Drag Brake
5	Timing Mode

MENU 1—BATTERY TYPE

NUMBER OF RED LED FLASHES	BATTERY TYPE
1	Ni-MH/Ni-Cd (no cutoff)
2	2S Li-Po (6.2V cutoff)

MENU 2—DRIVE TYPE

NUMBER OF RED LED FLASHES	DRIVE TYPE
1	Forward Only
2	Forward/Brake/Reverse

MENU 3—BEGINNER MODE

NUMBER OF RED LED FLASHES	BEGINNER MODE
1	Off (no throttle limit)
2	On (50% throttle limit)

MENU 4—DRAG BRAKE

Drag Brake is the amount of brake percentage applied when the throttle returns to neutral.

NUMBER OF RED LED FLASHES	DRAG BRAKE (% of braking applied at neutral throttle)
1	0% (drag brake off)
2	10%
3	20%
4	30%

MENU 5—TIMING MODE

ESC timing will change the torque and RPM of the motor*. Timing Mode has more torque and RPM; Blinky Mode has less torque and RPM.

NUMBER OF RED LED FLASHES	MODE
1	Timing Mode
2	Blinky Mode (0 timing)

* Changing the timing setting of the ESC will make a significant change in performance. The temperature of the motor and ESC can change drastically, and the gearing of the motor and/or motor timing will need to be adjusted to compensate. With Timing Mode, gearing of the pinion should be approximately 6–7 teeth lower than Blinky Mode when using 48-pitch gears. Be sure to monitor the temperatures of the ESC and motor and do not allow them to exceed 160°F (70°C).

CHANGING BETWEEN BLINKY AND TIMING MODES

PRECAUTIONS

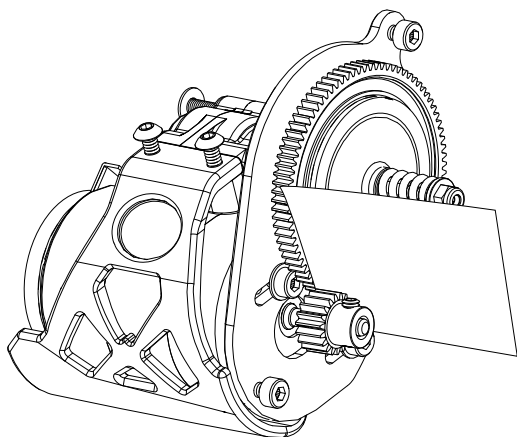
- Never touch moving parts.
- Always remove the battery pack before performing any maintenance on the vehicle.
- Always let parts cool before touching.

ADJUSTING THE SLIPPER

Turn the 5.0mm adjustment nut clockwise (to the right) to reduce the slip or counterclockwise (to the left) to increase the slip.

SETTING THE GEAR MESH

The gear mesh has already been set at the factory. Setting it is only necessary when changing motors or gears. Proper gear mesh (how gear teeth meet) is important to the performance of the vehicle. When the gear mesh is too loose, the spur gear could be damaged by the pinion gear of the motor. If the mesh is too tight, speed could be limited and the motor and ESC will overheat.



1. Unscrew the gear cover screws and remove the gear cover.
2. Loosen the motor screws.
3. Put a small piece of paper between the pinion and spur gears.
4. Push the gears together while tightening the motor screws.
5. Remove the paper. Check the mesh at 3–5 different locations around the spur gear for a small amount of movement.
6. Reinstall the gear cover.

OPTIMIZED PERFORMANCE FOR DIRT CONDITIONS

The 22SCT has been tested and developed to optimize the performance of the DYNP1001 ESC and the DYNP1017 17.5T motor for dirt racetrack conditions with an ambient temperature of 70–90°F (21–32°C). The gearing and timing of the motor are tuned properly for these conditions but may need adjustment to compensate for ambient temperatures above 90°F (32°C) or driving on asphalt, grass, carpet or surfaces other than dirt. When running in a new environment, check the temperature of the motor and ESC after 2 minutes. If the temperature is below 140°F (60°C), continue to run and check the temperature again after 5 minutes. Be sure to always keep the motor temperatures at or below 160°F (70°C) or permanent damage to the motor and/or ESC may occur. If exceeding these temperatures, discontinue use, change to a smaller pinion gear or reduce the amount of motor timing, then test again.

TIMING AND BLINKY MODES

The DYNP1001 ESC is designed to be capable of both Timing and Blinky Mode functions. When running timing, the ESC will advance the torque, power and RPM of the motor for improved performance. In Blinky Mode, also known as Non-Timing Mode, there is no additional advance to the motor performance due to timing of the ESC. The DYNP1001 ESC has been approved by ROAR for Non-Timing racing in Blinky Mode. When participating in sanctioned race activities, many host tracks will request for the ESC to be in Blinky Mode for participation. Changes to the Motor Timing and Gearing will maximize the performance of your vehicle in Timing Mode. Please see the chart below.

MODE	PINION GEAR	MOTOR TIMING
Timing Mode	19T	15°
Blinky Mode	25T	30°

Changing to Timing Mode

The ESC comes with the Blinky Mode selected, the 25T pinion installed and the DYNP1017 17.5T motor set to 30° of motor timing. When changing to Timing Mode for racing, all 3 items will need to be changed.

To change to the Timing Mode ESC setting

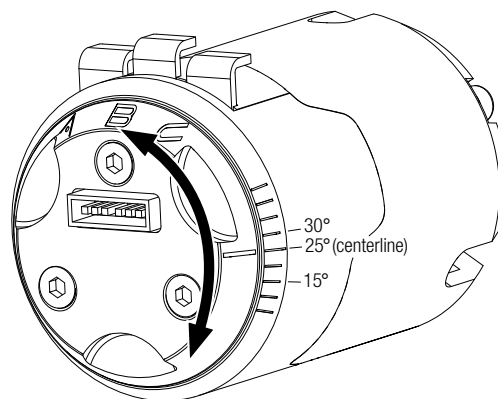
1. Power ON the transmitter, then power ON the ESC.
2. Press and hold the Setup button for 3 seconds. Continue to hold the button.
3. After 8 seconds, the blue LED will flash 1 time, then pause. The blue LED will flash 2 times, then pause. The blue LED will flash 3 times, then pause. The blue LED will flash 4 times, then pause. The blue LED will flash 5 times, then pause. To enter the Timing Mode menu, release the ON/OFF button during the pause following the 5 flashes of the blue LED.
4. The red LED flashes to indicate the current mode: Timing or Blinky.
5. Quickly press the ON/OFF button until the red LED flashes once, indicating Timing Mode has been selected.
6. Press and hold the ON/OFF button to confirm the selection.

To change to the Timing Mode 19T Pinion Gear

1. Remove the 22SCT RTC™ body by removing 4 body clips and lifting the body away from the chassis.
2. Use the 7mm end of the provided 4-way wrench to remove the wheel nut securing the right rear tire. Then remove the right rear tire.
3. Use the 2.5mm Hex Wrench ("L" shaped) to remove the 2 screws that secure the gear cover and remove the gear cover.
4. Use the 2.5mm Hex Wrench ("L" shaped) to loosen the 2 screws securing the motor 1 turn each, then slide the motor away from the spur gear.
5. Use the 1.5mm Hex Wrench ("L" shaped) to loosen the set screw on the 25T pinion gear.
6. Slide the 25T pinion gear off the motor shaft.
7. Locate the 19T pinion gear in the accessories bag included with your vehicle.
8. Slide the 19T pinion gear onto the motor shaft. Make sure the hole in the gear for the set screw is lined up with the flat portion of the motor shaft.
9. Use the 1.5mm Hex Wrench ("L" shaped) to insert the pinion set screw into the pinion gear, then tighten it to the flat portion of the motor shaft.
10. Move the motor and pinion gear towards the spur gear to set the mesh. There should be a little backlash between the pinion and spur gear all the way around. If the mesh is set too tight, it could make the motor run hot. If it is set too loose, it may damage the spur gear.
11. When the motor is in place, use the 2.5mm Hex Wrench ("L" shaped) to tighten the 2 motor screws.
12. Replace the gear cover, then use the 2.5mm Hex Wrench ("L" shaped) to insert and tighten the 2 screws that secure the gear cover.
13. Replace the right rear tire on the axle and use the 7mm end of the provided 4-way wrench to start and tighten the wheel nut.

To change to the Timing Mode 15° Motor Timing

1. Remove the body from the vehicle.
2. Use the 2mm Hex Wrench ("L" shaped) to loosen the 3 motor end plate screws 2 turns each.
3. Rotate the motor end plate clockwise until the line on the end plate is matched to the 2nd line on the "-" side from the longer center mark.
4. Use the 2mm Hex Wrench ("L"-shaped) to tighten the 3 motor end plate screws.



TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
Vehicle does not operate	Battery not charged or plugged in	Charge battery/plug in
	ESC switch not "On"	Turn on ESC switch
	Transmitter not "On" or low battery	Turn on/replace batteries
Motor runs but rear wheels do not rotate	Pinion not meshing with spur gear	Adjust pinion/spur mesh
	Pinion spinning on motor shaft	Tighten pinion gear setscrew on motor shaft flat spot
	Slipper too loose	Check and adjust slipper
	Transmission gears stripped	Replace transmission gears
	Drive pin broken	Check and replace drive pin
Steering does not work	Servo plug not in receiver properly	Make sure the steering servo plug is connected to the receiver steering channel, noting proper polarity
	Servo gears or motor damaged	Replace or repair servo
Will not turn one direction	Servo gears damaged	Replace or repair servo
Motor does not run	Motor wire solder joint is damaged	Resolder the motor wire with the proper equipment
	Motor wire broken	Repair or replace as needed
	ESC damaged	Contact Horizon Hobby Product Support
	Sensor wire damaged or loose	Replace or reinstall sensor wire
ESC gets hot	Motor over-gear	Use smaller pinion or larger spur gear
	Driveline bound up	Check wheels and transmission for binding
Poor run time and/or sluggish acceleration	Battery pack not fully charged	Recharge battery
	Charger not allowing full charge	Try another charger
	Slipper slipping too much	Check/adjust slipper
	Driveline bound up	Check wheels, transmission for binding
Poor range and/or glitching	Transmitter batteries low	Check and replace
	Vehicle battery low	Recharge battery
	Loose plugs or wires	Check all wire connections and plugs
Slipper will not adjust	Drive pin missing in shaft	Replace drive pin
	Slipper plates worn out	Replace slipper plates and adjust slipper

BINDING THE RECEIVER TO THE TRANSMITTER

1. Make sure the transmitter and vehicle are both powered off.
2. Install a bind plug in the receiver battery/bind port. You do not need to remove any of the other plugs to re-bind.
3. With the Bind plug installed, turn on the vehicle.
An orange LED on the receiver will start blinking.
4. With the steering and throttle in the desired preset failsafe positions (neutral), press and hold the bind button and turn on the transmitter. The red LED on the front of the transmitter will flash within a couple seconds, indicating the transmitter is in bind mode. Once the red LED begins flashing, release the bind button.
5. When the receiver binds to the transmitter, the receiver light will turn solid.
6. Power off the vehicle and the transmitter.
7. Disconnect the battery from the ESC. Remove the bind plug from the receiver.
8. Safely store the bind plug (the DX2L transmitter is equipped with a bind plug storage compartment).
9. The receiver will keep the binding to the transmitter until another binding is done.

If you encounter problems, obey binding instructions and refer to the transmitter troubleshooting guide for other instructions. If needed, contact the appropriate Horizon Product Support office.

LIMITED WARRANTY

WHAT THIS WARRANTY COVERS

Horizon Hobby, Inc. ("Horizon") warrants to the original purchaser that the product purchased (the "Product") will be free from defects in materials and workmanship at 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, or (vi) Product not compliant with applicable technical 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 REPAIRS

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 877.504.0233 toll free to speak to a Product Support representative.

INSPECTION OR SERVICES

If this Product needs to be inspected or serviced and is compliant in the country you live and use the Product in, please use the Horizon Online Service Request submission process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) number. Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. An Online Service Request is available at http://www.horizonhobby.com/content/_service-center_render-service-center. 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 Li-Po batteries to Horizon. If you have any issue with a Li-Po 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 REPAIRS

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.

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.

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: www.horizonhobby.com/service
	Horizon Product Support (All other products)	4105 Fieldstone Rd Champaign, Illinois, 61822 USA	877-504-0233 productsupport@horizonhobby.com
United Kingdom	Horizon Hobby Limited	Units 1-4 Ployters Rd Staple Tye Harlow, Essex CM18 7NS, United Kingdom	+44 (0) 1279 641 097 sales@horizonhobby.co.uk
Germany	Horizon Technischer Service	Christian-Junge-Straße 1 25337 Elmshorn, Germany	+49 (0) 4121 2655 100 service@horizonhobby.de
France	Horizon Hobby SAS	11 Rue Georges Charpak 77127 Lieusaint, France	+33 (0) 1 60 18 34 90 infofrance@horizonhobby.com
China	Horizon Hobby-China	Room 506, No. 97 Changshou Rd. Shanghai, China 200060	+86 (021) 5180 9868 info@horizonhobby.com.cn

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 sales@horizonhobby.com
United Kingdom	Horizon Hobby Limited	Units 1-4 Ployters Rd Staple Tye Harlow, Essex CM18 7NS, United Kingdom	+44 (0) 1279 641 097 sales@horizonhobby.co.uk
Germany	Horizon Hobby GmbH	Christian-Junge-Straße 1 25337 Elmshorn, Germany	+49 (0) 4121 2655 100 service@horizonhobby.de
France	Horizon Hobby SAS	11 Rue Georges Charpak 77127 Lieusaint, France	+33 (0) 1 60 18 34 90 infofrance@horizonhobby.com
China	Horizon Hobby-China	Room 506, No. 97 Changshou Rd. Shanghai, China 200060	+86 (021) 5180 9868 info@horizonhobby.com.cn

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 unde-sired operation.

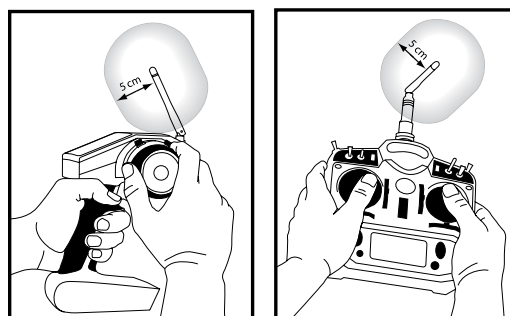
⚠ CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 2.400 GHz to 2.4835 GHz 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 following illustrations show the approximate 5 cm RF exposure area and typical hand placement when operating your Spektrum transmitter.



IC INFORMATION

This device complies with Industry Canada licence-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

AT	BE	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. HH2013021501

Product(s): TLR 22SCT RTC (includes Spektrum DX2L Transmitter with Spektrum SR3520 Receiver)

Item Number(s): TLR03001

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 and EMC Directive 2004/108/EC:

EN 300-328 V1.7.1: 2006

EN 301 489-1 V1.7.1: 2006

EN 301 489-17 V1.3.2: 2008

EN 60950-1:2006+A11:2009+A1:2010+A12: 2011

EN 55022:2010 + AC:2011

EN 55024:2010



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.

Signed for and on behalf of:

Horizon Hobby, Inc.

Champaign, IL USA

February 15, 2013

Steven A. Hall

Executive Vice President and Chief Operating Officer

International Operations and Risk Management

Horizon Hobby, Inc.