parkzone®

Super Decathlon BL Instruction Manual

PLUG-N-PLAY®

Charge-and-Fly™ Park Flyer

Specs: Wingspan: 35.4 in (900mm)
Overall Length: 25.3 in (640mm)
Weight: 16 oz (450 g)
Motor: PKZ 370 Outrunner brushless motor, 1500Kv
ESC: E-flite® 10A pro Brushless ESC (EFLA1010)
Servos: Two 3-wire servos

parkzone®

Super Decathlon BL PNP®

Introduction

Congratulations on your purchase of the ParkZone® Super Decathlon BL PNP. You will need to attach the wing and landing gear to complete the airplane assembly in addition to supplying your own radio system and battery. We at ParkZone are committed to giving you the most enjoyable flight experience possible. In order to have a safe and successful flight, we ask that you do not fly until you have read these instructions thoroughly.

Your Super Decathlon BL PNP already has the 3-wire servos, a ParkZone 370 outrunner brushless motor, and an E-flite® Pro 10A brushless ESC installed. The decals have been applied as well. You will only need to add your own battery (a 2S 800mAh Li-Po is recommended), as well as a receiver and transmitter.

In as little as an hour, you can be ready for your first flight with the Super Decathlon BL PNP. This means you can spend your time refining your flying skills, not your building skills.

Warning: *Although your ParkZone Super Decathlon BL PNP comes almost ready to fly, this aircraft is for experienced RC pilots only and is not a toy! Misuse of the plane can cause serious bodily harm and damage to property. Therefore, only an experienced RC pilot should fly it.*

Step 1 – Charging the Aircraft Battery

We recommend that you choose the 800mAh 2S Li-Po (PKZ1032) to power your Super Decathlon BL PNP. The Li-Po battery must be charged with a charger that is specifically designed to handle Li-Po batteries, such as the ParkZone 2- to 3-cell Li-Po Charger (PKZ1040). Regardless of the battery you choose, always follow the charger and battery instructions to avoid any damage to the battery, charger, property or yourself.

Step 2 – Installing the Landing Gear

1. Locate the landing gear within the packaging.

2. Slide one half of the landing gear into the allotted slot in the fuselage until it locks into place. Slide the other half of the landing gear into the fuselage as you have done with the previous one. Look into the fuselage to make sure the two gear halves are pressed in snug against the center of the landing gear support.

3. Make sure both parts of the landing gear are secure and properly in place. They should feel snug inside the fuselage when attached properly.

Step 3 – Installing the Receiver

You should place your receiver in the compartment that is directly aft of the battery holder box. This is right at the point of the center of gravity. Carefully plug the servo leads into the corresponding channels of the receiver you have chosen.

The servo plugs may have to be trimmed carefully with a hobby knife (if you are using a Spektrum™, JR® or HiTec radio system) in order to fit correctly into the receiver. Confirm that the servo leads/plugs are in the correct channel of the receiver. Do this by:

1. Turning on the transmitter, confirming that the throttle is in the "off" position.

2. Installing a charged flight battery.

3. Plug flight battery into ESC.

Step 4 – Attaching the Wing

1. Locate the wing and wing strut screws.

2. Place the wing on the top of the fuselage, making certain it is centered properly. Attach the wing with four rubber bands that are included. Stretch two of the rubber bands from the front to the rear attach points. Stretch the last two diagonally across the middle to the attach points.

3. Attach the wing struts to the fuselage. Locate the two small Phillips screws and attach the strut to the fuselage as shown. Once the screw is tightened into the fuselage, you can loosen it slightly to allow the slack of the strut to be adjusted as needed.

4. Make sure that prior to each flight the wing is properly centered on the fuselage. If the wing is not centered properly, it is impossible to have correct flight.

Step 5 – Motor Test

1. Make sure the throttle slider is in the OFF position.

2. Turn on the transmitter.

3. Remove the battery door from the bottom of the fuselage.

4. Plug flight battery into the ESC inside of the fuselage. The ESC has been preset with a 2S low voltage cutoff for your convenience.

5. Secure the battery inside the fuselage cavity and replace the battery door.

6. Your Super Decathlon BL PNP has a built-in throttle-arming feature which needs to "see" the throttle slider in the OFF position before it will spin the propeller.

Caution: *Make sure that you, as well as loose objects and hair, are away from the propeller at all times.*

Grasp the rear of the fuselage with the nose of the Super Decathlon facing away from you. Advance the throttle forward and the propeller should spin at a high speed. The throttle-arming feature will need to be activated each time the battery is plugged into the airplane.
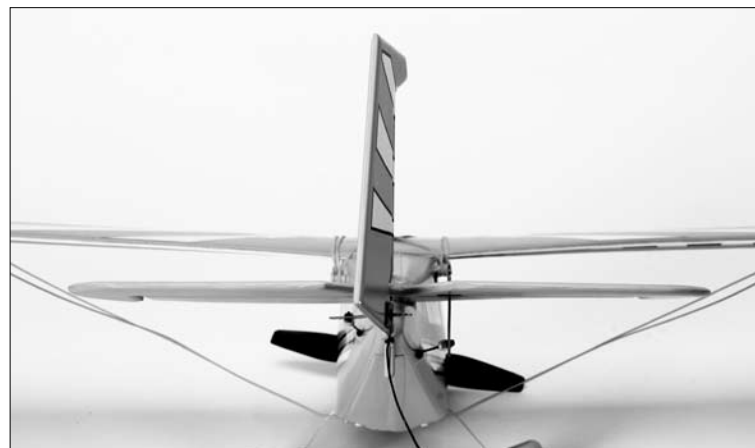
7. When finished with the motor test, continue to the Tail Control Test on the next page.

Note: *It is important to always turn on the transmitter prior to plugging in the flight battery. Plugging in the flight battery first may cause undesired operation due to interference, potentially resulting in damage to the aircraft or personal injury.*
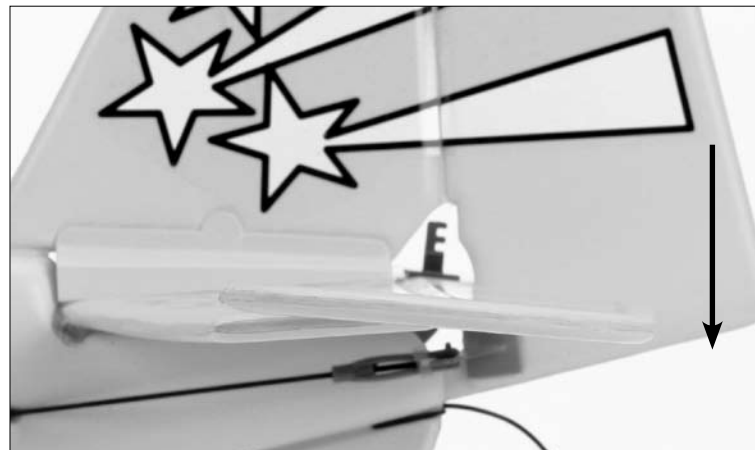
Step 6 – Tail Control Test

Warning: *Keep everything clear of the propeller before starting the control test in the event that you accidentally turn on the motor.*

1. Be certain that the throttle slider is in the OFF position. Make certain both trim levers are centered.

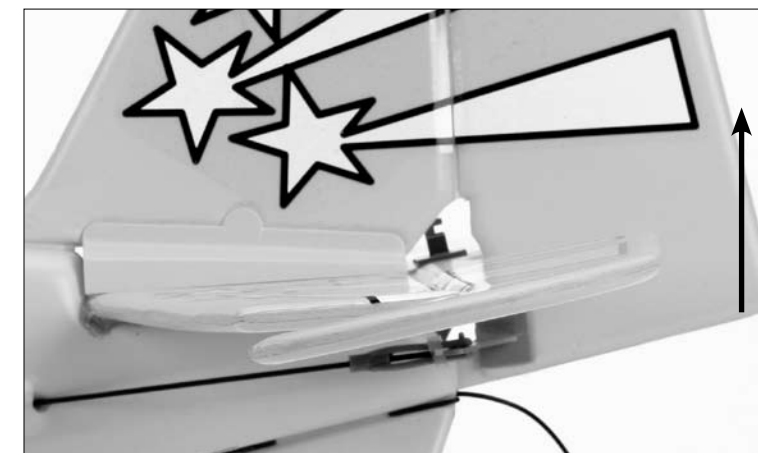2. Move the stick from side to side. The rudder should move per your transmitter input.

3. Move the stick full forward. When this is done, the elevator control surface should move down.

Step 6 – Tail Control Test (continued)

4. Pull the stick back and the elevator control surface should move up.

5. **If your airplane is not responding correctly to the transmitter input, do not fly.** Some correction is needed. Call the Horizon Support Team at 1-877-504-0233.

6. When the test is complete, be sure to disconnect the flight battery first, then turn off the transmitter. This should be done each time you turn off the airplane.

Note: *It is very important to make sure that the control surfaces (rudder and elevator) are at 0 degrees when the transmitter control stick and trim levers are centered.*

Step 7 – Control Surface Adjustments

1. Any changes necessary to bring both the rudder and elevator to neutral (0 degrees) when the transmitter stick is centered should be possible using the trim levers.

2. If you find this is not the case, do not fly until this has been corrected.

3. If corrections are needed, you may have to adjust the length of the pushrod by removing the clevis from the control surface horn and turning the plastic clevis as necessary. Prior to doing this, make certain the trim levers and stick are centered.

If you have any questions regarding these adjustments, please contact the Horizon Support Team at 1-877-504-0233.

Step 8 – Flying

Choose a Large, Open Fying Site

- A large, open grassy field is recommended to fly your Super Decathlon BL PNP. The larger the field, the better. The Super Decathlon BL covers ground quickly.

- It is essential to have a minimum of 300 feet of clear space in all directions from the pilot. Ignoring this direction could result in a flyaway airplane.

- Make certain that you do not fly near trees, buildings or other areas that can restrict your view or interfere with your flying.

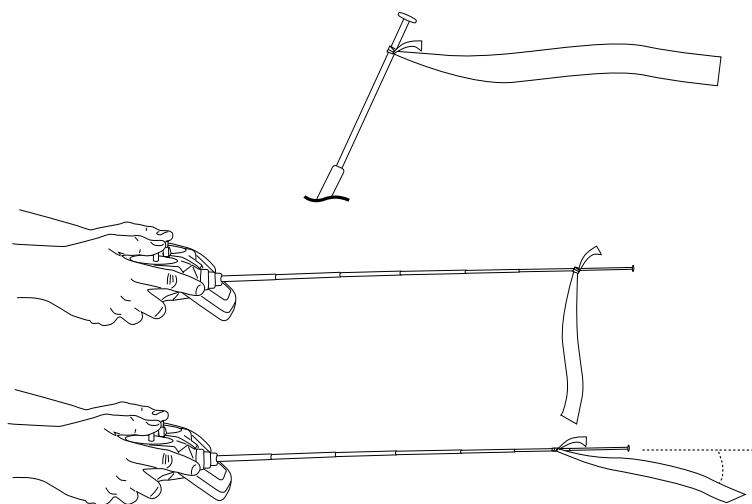- Always keep the plane upwind from you to avoid flyaways. This is essential.

Step 9 – Choose a Calm Day

You want to fly. However, you need to make sure that you fly in the conditions that will allow you to have the best success. This is when there is little to no wind (less than 7 mph).

To check wind conditions:
1. Tie the included red ribbon to the transmitter antenna.

2. Hold the transmitter antenna so that it is parallel to the ground and note how much the ribbon moves in the wind. If the ribbon hangs down, conditions are right to fly. However, if the angle between the antenna and the ribbon is less than 20 degrees, it is too windy to fly.
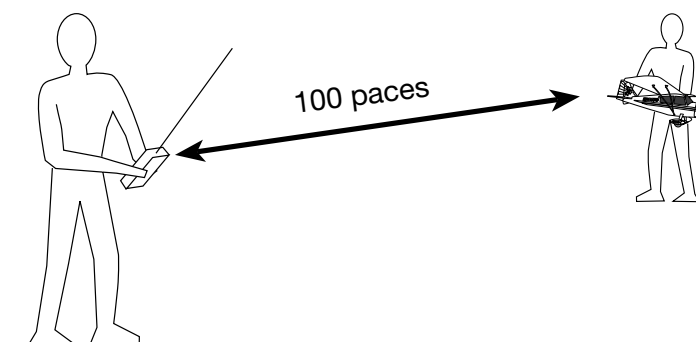
Step 10 – Range Test

You will need two people to perform the range test: one to hold the plane and the other to give the transmitter input.

> **Warning:** *The person holding the plane should hold it in a way so the propeller does not come into contact with anything loose on his/her clothing or body.*

1. One person holds the transmitter, while the other person walks 100 paces away with the airplane.

2. Be sure the throttle slider is in the OFF position.

3. Extend the transmitter antenna completely and turn the transmitter on.

4. Plug the airplane battery into the fuselage and replace the battery door.

5. As soon as the throttle slider is advanced, the propeller should spin quickly.

6. As the first person moves the transmitter controls at the same time, the other person watches to be sure the airplane's motor and tail controls operate smoothly.

100 paces

Step 11 – Seek Assistance from an Experienced Radio Control Pilot

VERY IMPORTANT: The 3-channel control system is designed for the experienced radio control pilot and is not intended for the first-time flier. It is best to have HobbyZone Zone 2 experience. First-time pilots of the ParkZone Super Decathlon BL PNP should seek the assistance of an experienced RC flier until the additional third channel, pitch control, has been competently mastered. **Crash damage is not covered under the warranty.**

> **Important:** *Initial flights should always be done with the airplane in low rate mode.*

Step 20 – Programming the E-flite 10A Pro Brushless ESC

The E-flite® 10A Pro Brushless ESC controller has been designed for use in radio control aircraft and to support continuous currents of up to 10 amps when using 2-3 cell Li-Po battery packs and up to four sub-micro servos. Standard features include advance BEC and safe power arming along with programmable features such as low voltage cutoff, braking, timing and throttle input range. **The ESC has been preset for 2S Li-Po low voltage cutoff.**

Features:
- Up to 10 amps continuous current with proper air flow
- Programmable motor braking
- Safe power-arm mode prevents accidental starts
- Programmable low voltage cutoff with settings for 2-cell Li-Po (6V), 3-cell Li-Po (9V) or 70% of battery starting voltage
- Programmable throttle input range (1.1-1.9ms or Auto Select)
- Soft start
- Auto motor shutdown if signal is lost or there is interference
- Programmable timing—2 user-selectable ranges for use with a large variety of brushless motors
- Pre-wired connectors—JST on battery input and 2mm female gold bullets on motor output leads

Specifications:
- Continuous Current: 10A
- Max Burst Current: 12A (15 sec)
- Length: 30mm (1.2 in)
- Width: 17.5mm (.7 in)
- Height: 10mm (.4 in)
- Weight: 10 g (.35 oz)
- Cells: 2-3S Li-Po or 6-10 Ni-MH/Ni-Cd
- Battery Input Leads: 20 AWG with JST Connector
- Motor Output Leads: 20 AWG with 2mm Female Gold Bullet Connectors

** Sub-Micro servos tested 4 at a time include E-flite S-60, and S-75, JR 241, and ParkZone 3W servo. Some other brands of servos have significantly higher current draw. Digital sub-micro servos, micro and mini-servos have higher current draw, use the 'standard servos' column. Always be sure to position the ESC for maximum airflow since cooling can significantly aid in the performance of the BEC.

Before first use, please refer to Chart A for BEC usage and input voltage/cell count guidelines. You must follow these guidelines for safe operation. If you are using four servos with higher current draw, or more than four servos for a quad flap option (for example), you will need to disable the BEC. If you wish to disable the BEC, you must remove the red receiver wire lead and connector from the receiver lead housing, and then insulate it properly to prevent shorting.

When operating with the BEC disabled, E-flite recommends the use of a separate, high-power, external, BEC (like the Ultimate BEC), or receiverpack and switch using the following items to ensure trouble-free

operation:

1. Expert 720mAh Ni-MH 4.8V receiver battery (EXRB100), or similar
2. Expert Standard Switch (EXRA050), or similar

PLEASE READ THESE INSTRUCTIONS IN THEIR ENTIRETY BEFORE USE

Before you connect your ESC and begin flying, take a moment to look it over. The input power side has a black (negative) and red (positive) wire along with a female JST Connector. The motor side has three, 2mm female gold bullet connectors.

The black and red wires with the female JST connector will connect to your power battery. The red wire connects to the red wire on your battery pack, the black wire to the black wire on your battery pack. If the wires are reversed, the ESC may be damaged. **YOU MUST ENSURE THAT YOU CONNECT THE BATTERY POLARITY PROPERLY TO PREVENT DAMAGE TO THE ESC.** Reversing polarity will void your warranty, so always double-check this connection. You may need to solder a male JST Connector (EFLA242) to the battery so it matches this speed control. The throttle lead connects to the throttle channel on your radio receiver. WARNING: For your safety, when checking the start-up function of the ESC or making programming changes, please remove the propeller to prevent any potential injury. You should always treat the motor and propeller as live and dangerous, remembering that it could start at any time, and keep any body parts, clothing and tools clear of the propeller arc. **NEVER LEAVE THE BATTERY CONNECTED WHEN NOT FLYING THE AIRCRAFT AND ALWAYS REMOVE THE BATTERY FROM THE MODEL BEFORE CHARGING AND WHEN FINISHED FLYING.**

When flying in hot weather, we recommend checking on the condition of the ESC, battery and motor after each flight, and you may want to consider letting the electronic components cool to near ambient temperature between flights.

We also recommend throttle management when running near maximum levels of current draw. It is not recommended that you fly an entire flight at full throttle. If this is done, it is possible to cause permanent damage to your motor, battery and ESC.

Step 20 – Programming the E-flite 10A Pro Brushless ESC (continued)

Using Your 10-Amp Pro Brushless Controller:
This controller is very simple to use, and for safety, will not arm the motor until the throttle stick has been held in the Idle/OFF position for more than 1 second. The controller will indicate the soft cutoff voltage setting every time you plug the battery in by first emitting a low, long tone, to show start-up. You will then hear 2 (for 2-cell Li-Po) or 3 (for 3-cell Li-Po) medium length, mid tones to indicate the cell count (or 7 beeps if 70% Smart Cut is selected), helping you to confirm the setting before every flight.

Connecting the ESC to the Motor:
The three wires from your motor connect to the three female gold bullet connectors on the ESC. The order of connection to the motor is not important; you can plug any motor wire into any connector. If, when you test the system, the motor runs backwards you can simply unplug and switch any two of the motor wire plugs connected to the ESC.

Mounting the ESC:
Choose a location that has good airflow and offers good protection. The plastic case area next to the small BEC heat sink is designed to accept Velcro® or 2-sided tape. Do not cover the heat sinks as this will greatly reduce their effectiveness.

Mount the ESC with a combination of Velcro®, 2-sided foam tape, and/or tie wraps.

Starting Your Power System:
1. Turn on your transmitter and ensure the position of the throttle stick is set to Idle/Off.
2. Plug in the flight pack to the controller and listen for the tones to indicate voltage cutoff.

3. After the controller has indicated the cell count, you will hear a series of 3 medium length rising tones to indicate the controller is armed and ready to fly.

4. When you move the throttle stick upward, the motor will run. If you continue to move the throttle stick upward to full throttle (high position), the motor will run faster. If you lower the throttle stick below the start-up position, the motor will stop running.

5. Check servo motion as part of your preflight check. It is very important you make sure linkages are free-moving with no binding.

Entering the Programming Mode:
1. With the battery disconnected from the controller, and the transmitter turned on, first move the throttle stick to full throttle (>1.7ms) position. Leave it in this position and then connect the

battery to the controller.

2. Wait for 5 seconds, and the ESC will give two sets of fast ringing tones to indicate you have successfully entered the programming mode.

3. Once you hear these tones, move the stick to center (between 1.4 and 1.6ms), and the controller will beep 1 time; this indicates menu item 1.

4. The controller will now wait 5 seconds for you to make your selection; your programming options are either full throttle (>1.7ms), or idle (<1.3ms).

5. When you have made a valid selection the control will beep once with a lower tone, and you can move the stick back to center for the next menu item (2 beeps, 3 beeps and so on). If you do not make a selection within 5 seconds, the controller will move to the next menu item.

6. Please note that if you do not need to program every menu item, you can simply exit the programming mode after you have made the required selections. You can do this by moving the throttle stick straight to idle, after making your selection, or leaving it in the idle position if you made no selection (for approximately 8 seconds), until you hear one set of 3 medium length rising tones that indicate the controller has armed the motor, or by simply unplugging the battery.

Remember, when in the programming mode:
Full Throttle = Stick Up
Idle = Stick Down

The default settings (from the package) for your E-flite 10-Amp Pro ESC are as follows:
- 3S (9V) auto cutoff for Li-Po
- Brake Off
- 4-pole and greater timing (outrunner or 6-pole motors)
- Throttle input range set to Auto Select Mode (1.2ms–1.8ms)

Programming Menu 1 – Voltage Cutoff:
Use this option to set the voltage at which the controller will shut down the motor to prevent damage to your battery, when it reaches the cutoff voltage. You will know that your battery pack has reached auto cutoff when you hear the motor "pulse" repeatedly.

1. 3S Li-Po voltage cutoff – Full Throttle
2. 2S Li-Po or Ni-Cd/Ni-MH voltage cutoff – Idle
3. 70% Smart Cut soft cutoff (See below for Smart Cut information)

NOTE: *To access the 70% Smart Cut option, leave the stick at full throttle for 7 seconds while in menu*

item 1, until 7 beeps are heard, then continue through the program normally. This option will activate the soft cutoff at 70% of start-up voltage. For example, if your pack measures 10.0 volts at start-up, then the soft cut will occur at 7.0 volts. The Smart Cut option will check the start-up voltage every time you plug the battery into the controller, so beware of using partially charged packs, as the system cannot protect your Li-Po batteries if you are using Smart Cut and connect a partially charged pack.

You will know your battery pack has reached soft auto cutoff when you hear the motor "pulse" repeatedly. We recommend you land your model as soon as you hear the motor pulse (indicating the pack voltage has dropped to the cutoff voltage level) to prevent over discharge of the Li-Po battery pack and to prevent sudden power loss.

Programming Menu 2 – Braking:
This option gives you the choice to have the ESC stop the propeller during flight (Brake on) or allow it to windmill (Brake off). Use the brake-on option for gliders.

1. Brake Off – Full Throttle (>1.7ms)
2. Brake On – Idle (<1.3ms)

Programming Menu 3 – Timing:
Please refer to your motor instructions and specifications for an indication of the number of poles.

1. 4-pole and greater motors timing mode – Full Throttle
2. 2-pole motors timing mode – Idle

Programming Menu 4 – Throttle Input Range:
This option is to allow for proper operation of the ESC with many different radios on the market. Most radios, and all the computer radios we have tested, work well with the auto-set option, but some radios have a wider output range, and may give a more linear response with the 1.1 to 1.9ms range. If you feel there is too much "dead" area in the stick movement near Full Throttle, try adjusting the end points in your radio, or change to the wider input range.

Be aware that if these settings are not correct, it may be impossible to arm the controller. If this happens, return the input range setting to the default auto learning setting. The auto setting option learns the minimum position of your throttle (between 1.1 and 1.3ms) and stores this value at each start-up, and then adds a value of 0.6ms for the full throttle setting.

1. Throttle Range 1.1ms to 1.9ms – Full Throttle
2. Auto Select – Idle

Error Codes:
The controller will beep continuously if the input voltage is below the cut voltage (beep...beep...beep) when the battery is connected. Check the voltage of the battery pack to see if it is correct, or the programmed cutoff setting if the input voltage is set incorrectly for the voltage of the pack being used.

If you have trouble arming the controller (and the throttle trim has been set to minimum), enter the programming mode and try the auto setting in Programming Menu 4 to see if it helps correct your problem. If it is a computer radio, you may alternatively increase your high and low throttle ATV (endpoint) percentages.

Some systems, including many Futaba systems, may require the throttle channel to be "reversed" for proper operation.

1. Read and follow this manual completely, observing all instructions and safety directions. Otherwise, serious injury and damage can occur. Think safety first.

2. Keep propeller away from body parts, even when it isn't spinning, as it could be turned on by accident. Beware of hair becoming entangled in the propeller, especially while launching the Super Decathlon BL PNP.

3. Do not fly when it's too windy or you may lose control and crash, causing injury or damage. Never fly near people, vehicles, train tracks, buildings, power lines, water, hard surfaces or trees. Never allow any one to attempt to catch the airplane while it's in flight or serious injury can result.

4. Adult supervision is recommended for ages 14 and under.

5. Battery charging: Only use a battery charger intended for use with the flight battery. Never leave charger unattended while charging. This will help prevent overcharging. While charging, place the battery on a heat resistant surface. Do not lay it on carpet or upholstery while charging.

6. Never cut into the battery charger or airplane wires or serious injury can occur. Causing the battery to "short out" (crossing negative and positive bare wires) can cause fire, serious injury and damage.

7. Hold the plane securely, and keep all body parts away from the propeller when the flight battery is plugged in. When you finish flying the Super Decathlon, always unplug the battery before you turn off the transmitter.

8. Never fly on the same frequency as another RC aircraft in your area. The frequency of the Super Decathlon BL PNP is shown on stickers on the back of the transmitter.

Warning
Though your ParkZone Super Decathlon BL PNP comes ready to fly, this aircraft is for experienced RC pilots only and is not a toy. It can cause serious bodily harm and damage to property.

FCC Statement
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

Warranty

Warranty Period:
Exclusive Warranty- Horizon Hobby, Inc., (Horizon) warranties that the Products purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase by the Purchaser.

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

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

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

Damage Limits:
HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability.

If you as the Purchaser or user are not prepared to accept the liability associated with the use of this Product, you are advised to return this Product immediately in new and unused condition to the place of purchase.

Law: These Terms are governed by Illinois law (without regard to conflict of law principals).

Safety Precautions:
This is a sophisticated hobby Product and not a toy. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the Product or other property. This Product is not intended for use by children without direct adult supervision. The Product manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or injury.

Questions, Assistance, and Repairs:
Your local hobby store and/or place of purchase cannot provide warranty support or repair. Once assembly, setup or use of the Product has been started, you must contact Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please direct your email to productsupport@horizonhobby.com, or call 877.504.0233 toll free to speak to a service technician.

Inspection or Repairs:
If this Product needs to be inspected or repaired, please call for a Return Merchandise Authorization (RMA). Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. A Service Repair Request is available at www.horizonhobby.com on the "Support" tab. If you do not have internet access, please include a letter with your complete name, street address, email address and phone number where you can be reached during business days, your RMA number, a list of the included items, method of payment for any non-warranty expenses and a brief summary of the problem. Your original sales receipt must also be

Warranty (continued)

included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

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

Non-Warranty Repairs:
Should your repair not be covered by warranty the repair will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for repair you are agreeing to payment of the repair without notification. Repair estimates are available upon request. You must include this request with your repair. Non-warranty repair estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Please advise us of your preferred method of payment. Horizon accepts money orders and cashiers checks, as well as Visa, MasterCard, American Express, and Discover cards. If you choose to pay by credit card, please include your credit card number and expiration date. Any repair left unpaid or unclaimed after 90 days will be considered abandoned and will be disposed of accordingly. Please note: non-warranty repair is only available on electronics and model engines.

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

Horizon Service Center
4105 Fieldstone Road
Champaign, Illinois 61822

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

Horizon Support Team
4105 Fieldstone Road
Champaign, Illinois 61822

Please call 877-504-0233 or e-mail us at productsupport@horizonhobby.com with any questions or concerns regarding this product or warranty.

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

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

Please call +44 1279 641 097 or e-mail us at sales@horizonhobby.co.uk with any questions or concerns regarding this product or warranty.

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

Horizon Technischer Service
Otto Hahn Str. 9a
25337 Elmshorn
Germany

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

Replacement Parts

Make sure that you keep your Vapor flying. Replacement parts are available at your local hobby store or from Horizon Hobby (www.horizonhobby.com). Please try your local hobby store first. By supporting them, they will be there when you need them.

Item #	Description
PKZ1013	Prop Adapter & Spinner Set
PKZ1014	Propeller (8.25 x 5.5)
PKZ4516	PKZ 370 Outrunner BL motor
PKZ4518	Motor Shaft: PKZ 370 Outrunner
PKZ4802	Decal Sheet: Decathlon BL
PKZ4806	Landing Gear w/Tires: Decathlon BL
PKZ4808	2 Wing Hold Down Rods: Decathlon BL
PKZ4810	Yellow Rubber Bands (5): Decathlon BL
PKZ4812	Battery Door w/Latch: Decathlon BL
PKZ4814	Firewall w/Screws: Decathlon BL
PKZ4820	Standard Wing: Decathlon BL
PKZ4822	Wing Struts w/Screws: Decathlon BL
PKZ4824	Complete Tail w/Accessories: Decathlon BL
PKZ4826	Cowl: Decathlon BL
PKZ4867	Bare Fuselage: Decathlon BL
EFLA1010	E-flite(R) 10A Pro Brushless ESC

Option Parts

Item #	Description
PKZ1032	7.4V 800mAh Li-Po Battery Pack
PKZ1040	2- to 3-cell DC Li-Po Balancing Charger
SPM6600	DX6I 6-Channel Full Range Radio
SPM6100	AR6100 DSM2 6-Channel Microlite Receiver
SPMP300	Spektrum Neck Strap
SPM9525	Spektrum 1500mAh AA (4) NiMH
SPM9526	Spektrum Wall Charger 150mA w/Tx Adapter

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