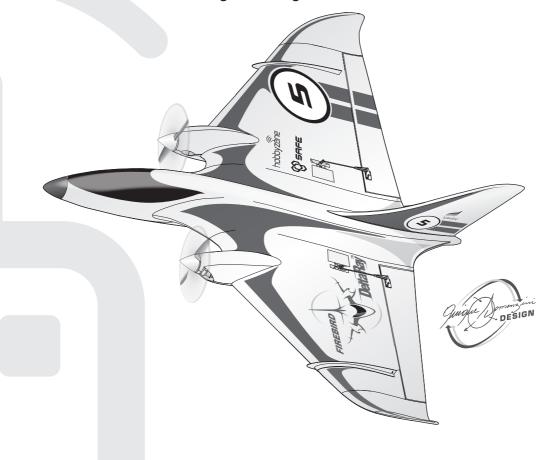


Instruction Manual • Bedienungsanleitung • Manuel d'Utilisation • Manuale di Istruzioni









NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC. For up-to-date product literature, visit www.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 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, 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.

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

WARNING AGAINST COUNTERFEIT PRODUCTS: If you ever need to replace your Spektrum receiver found in a Horizon Hobby product, always purchase from Horizon Hobby, LLC or a Horizon Hobby authorized dealer to ensure authentic high-quality Spektrum product. Horizon Hobby, LLC disclaims all support and warranty with regards, but not limited to, compatibility and performance of counterfeit products or products claiming compatibility with DSM or Spektrum.

Safety Precautions and Warnings

As the user of this product, you are solely responsible for operating in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

- 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.
- Always keep aircraft in sight and under control.
- Always use fully charged batteries.
- Always keep transmitter powered on while aircraft is powered.
- Always remove batteries before disassembly.
- Always keep moving parts clean.
- Always keep parts dry.
- Always let parts cool after use before touching.
- Always remove batteries after use.
- Always ensure failsafe is properly set before flying.
- Never operate aircraft with damaged wiring.
- Never touch moving parts.

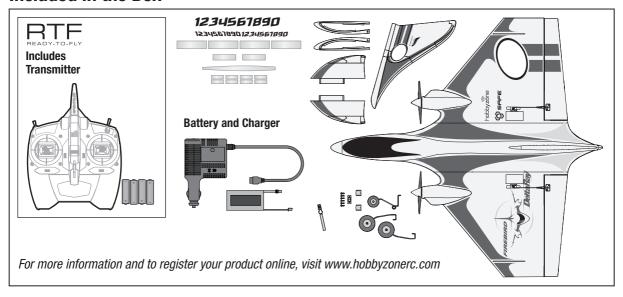
Charging Warnings

CAUTION: All instructions and warnings must be followed exactly. Mishandling of Li-Po batteries can result in a fire, personal injury, and/or property damage.

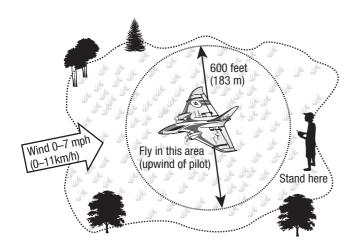
- NEVER LEAVE CHARGING BATTERIES UNATTENDED DURING USE.
 NEVER CHARGE BATTERIES OVERNIGHT.
- By handling, charging or using the included Li-Po battery, you assume all risks associated with lithium batteries.
- If at any time the battery begins to balloon or swell, discontinue use immediately. If charging or discharging, discontinue and disconnect. Continuing to use, charge or discharge a battery that is ballooning or swelling can result in fire.
- Always store the battery at room temperature in a dry area for best results.
- Always transport or temporarily store the battery in a temperature range of 40–120° F (5–49° C). Do not store battery or aircraft in a car or direct sunlight. If stored in a hot car, the battery can be damaged or even catch fire.

- Always charge batteries away from flammable materials.
- Always inspect the battery before charging and never charge dead or damaged batteries.
- Always disconnect the battery after charging, and let the charger cool between charges.
- Always constantly monitor the temperature of the battery pack while charging.
- ONLY USE A CHARGER SPECIFICALLY DESIGNED TO CHARGE LI-PO BATTERIES. Failure to charge the battery with a compatible charger may cause fire resulting in personal injury and/or property damage.
- Never discharge Li-Po cells to below 3V under load.
 - Never cover warning labels with hook and loop strips.
- Never charge batteries outside recommended levels.
- Never attempt to dismantle or alter the charger.
- Never allow minors under the age of 14 to charge battery packs.
- Never charge batteries in extremely hot or cold places (recommended between 40–120° F or 5–49° C) or place in direct sunlight.

Included in the Box



3







Flying Tips

- Sensor Assisted Flight Envelope (SAFE®) technology is designed as flight assistance, not an autopilot.
 The pilot is always in control and required to fly the aircraft at all times.
- Start in Beginner mode (SAFE® switch position 0).
 As you learn and become more confident, change modes to advance your flying skills.
- Always keep your aircraft in plain sight and upwind from you.
- Do not attempt your first turn at low altitude. Higher altitudes allow for greater possibility of correction.
- Always make deliberate and steady control stick movements for smooth control of your aircraft.
- Do not fly in winds greater than 8-10 mph. If flying in winds 5-10mph and in beginner Mode (SAFE® positon 0), you will likely need to fly in High Rates.

Pre	flight Checklist	√
1.	Find a safe and open area.	
2.	Charge flight battery.	
3.	Install flight battery in aircraft.	
4.	Perform Control Direction Test.	
5.	Plan flight for flying field conditions.	
6.	Have fun!	

Charging the Flight Battery

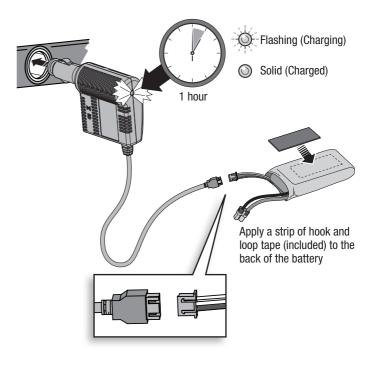


CAUTION: When connecting the battery to the battery charger, make sure the connectors are aligned as shown. Failure to connect the battery properly could cause the terminals to short and result in fire, personal injury and/or property damage.

Charger Specifications

- Input power: 10–14V
 Max output voltage: 8.4V
 Fixed charge current: 1.5A
- Balances and charges 2S Li-Po cells with a minimum capacity of 1300mAh

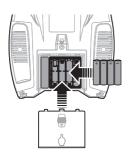
This charger may be connected to a 1.5A AC Power Supply (sold separately). Refer to the Optional Parts List.





DXe Transmitter

Remove the battery cover, install the four included batteries (noting proper polarity) and reinstall the battery cover.

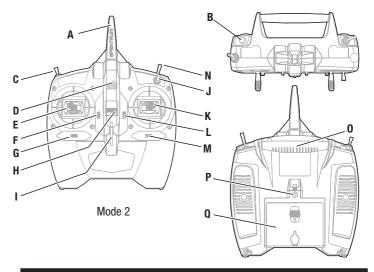


Low Battery Alarm

When the battery voltage drops below 4.7 volts, an alarm sounds and the voltage LEDs flash. The batteries must be replaced immediately. If this happens while flying, land your aircraft as soon and as safely as possible.



CAUTION: If using rechargeable batteries, charge only rechargeable batteries. Charging non-rechargeable batteries may cause the batteries to burst, resulting in injury to persons and/or damage to property.

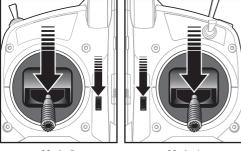


KE	1		
Α	Antenna	J	Hi/Lo (Dual Rate) Switch
В	Trainer/Bind/Panic Button	K	Right Control Stick
C	(CH 5) SAFE Flight Mode	L	Trim button (for Up-down on stick)
D	Power ON LED	M	Trim button (for Left-right on stick)
Е	Left Control Stick	N	Throttle Cut
F	Trim button (for Up-down on stick)	0	Handle
G	Trim button (for Left-right on stick)	Р	Trainer Port
Н	Power Switch (ON/OFF)	Q	Battery Cover
- 1	Neck Strap Mount		

Transmitter Binding

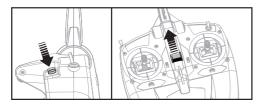


The included RTF transmitter should be bound to the aircraft at the factory, but if you need to re-bind, follow the binding procedure as shown.





Mode 1



Press and hold the trainer button on the top of the transmitter while turning on the power switch.

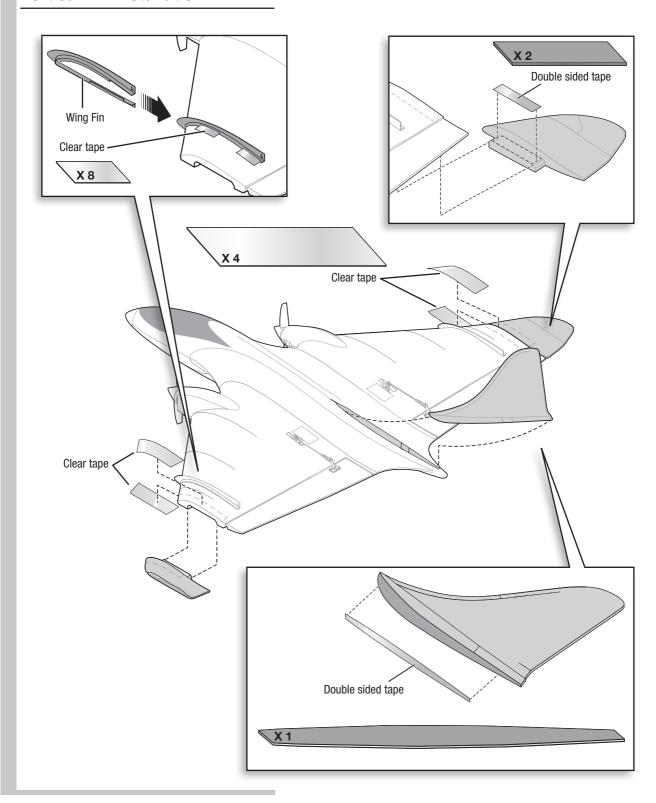


You need to 'bind' your chosen Spektrum™ DSM2®/DSMX® technology equipped aircraft transmitter to the receiver for proper operation. Please refer to the optional parts list in this manual or visit www.bindnfly.com for a list of compatible transmitters.

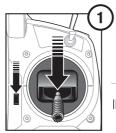
✓	Bin	ding Procedure Reference	Table
	1.	Make sure the transmitter is powered off.	
	2.	Make sure the transmitter controls are neutral, the throttle and throttle trim are in the low position, and the aircraft is immobile.	BIND PLUG
	3.	Install bind plug in the receiver bind port.	
	4.	Connect the flight battery in the aircraft. The receiver LED will begin to flash.	
	5.	Press and hold the trainer button on the top of the transmitter while turning on the power switch.	
	6.	When the receiver binds to the transmitter, the light on the receiver will turn solid. The motor will arm with throttle and throttle trim at the lowest position.	
	7.	Remove the bind plug from the receiver.	
	8.	Disconnect the flight battery from the aircraft, then power off the transmitter.	
inst	ructio	iver should retain the binding ons received from the transmit- another binding is done.	

^{*}The throttle will not arm if the transmitter's throttle control is not put at the lowest position. If you encounter problems, follow the binding instructions and refer to the transmitter troubleshooting guide for other instructions. If needed, contact the appropriate Horizon Product Support office.

Wingtip and Vertical Fin Installation



Installing the Flight Battery



Lower the throttle and throttle trim, then power on the transmitter for at least 5 seconds.

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Mode 2

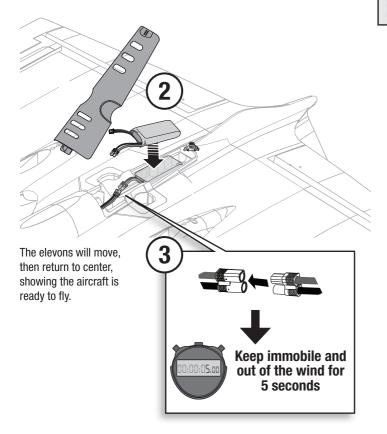
Mode 1

CAUTION: Always disconnect the Li-Po flight battery from the aircraft receiver when not flying to avoid over-discharging the battery. 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.



CAUTION: Always keep hands away from the propellers. SAFE technology will turn propellers in response to any aircraft movement.





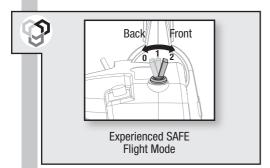
_90 ft (28 m)

Range Test

Before each flying session, and especially with a new model, you should perform a range check. Refer to your transmitter manual for more information.

Control Direction Test

Perform the Control Direction Test with the transmitter's SAFE flight mode switch set to **Experienced** mode (position 2).

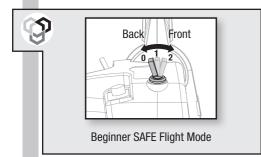


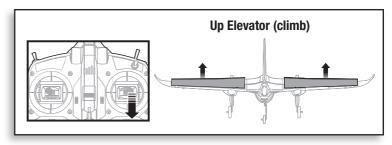
Restrain the aircraft so it does not escape your control while you are testing your transmitter controls.

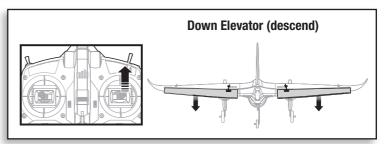
Move the sticks on the transmitter to ensure the aircraft responds as shown.

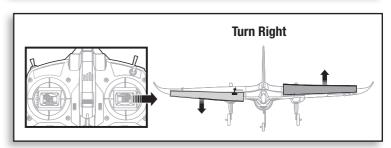
If your model does not respond as shown, DO NOT FLY! Refer to the Troubleshooting Guide in this manual for more information. If you need more assistance, contact the appropriate Horizon Hobby Product Support department.

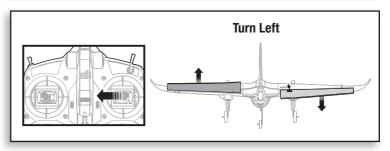
If the aircraft responds as shown, move the SAFE flight mode switch to **Beginner** mode (position 0) and center all trims to prepare to fly.











*Mode 2 transmitter shown. For Mode 1, Elevator control is on the LEFT stick.

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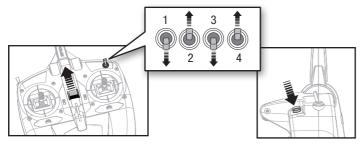
Mode 1

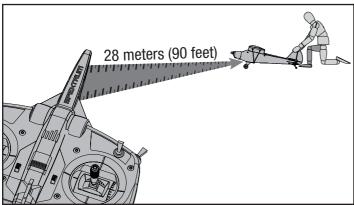
Mode 2





Keep immobile and out of the wind for 5 seconds





CAUTION: While holding the aircraft during the Range Test, always keep body parts and loose items away from the propeller. Failure to do so could cause personal injury.

Range Check

Before each flying session, and especially with a new model, you should perform a range check. The DXe incorporates a range testing system. Placing the transmitter in RANGE CHECK mode reduces the output power, allowing a range check.

- 1. Power on the transmitter for 5 seconds or more with the throttle stick and trim low. Power on the ESC Switch and keep the aircraft immobile for at least 5 seconds.
- 2. Face the model with the transmitter in your normal flying position. Toggle the HI/LO rate swtich 4 times. Immediately press and hold the trainer button. The LEDs will flash and the alarm will sound. The system is in range check mode.

IMPORTANT: You must hold the trainer switch during the entire range check process. Releasing the switch will exit the range check mode.

- 3. With the system powered on and the model restrained on the ground*, stand 28 meters (90 feet) away from the model.
- 4. Move the transmitter rudder, elevator, aileron and throttle controls to ensure they operate smoothly at 28 meters (90 feet).
- 5. If control issues exist, do not attempt to fly. Refer to the contact table at the end of the this manual to contact Horizon Hobby product support. Also, see the Spektrum website for more information.

*In some aircraft, when the model is placed on the ground, the antenna(s) can be within inches of the ground. Close proximity of the antenna(s) to the ground can reduce the effectiveness of the range check. If you experience issues during the range check, restrain the model on a non-conductive stand or table up to 2ft (60cm) above the ground, then range check the system again.

Takeoff

Hand Launch

Hand launch in Beginner mode for first flights. Get help to hand launch your aircraft so you can concentrate on flying. If you must hand launch the aircraft alone, hold the model in your dominant hand and the transmitter in your other hand. An optional neck strap (SPMP610, sold separately) can help you hold the transmitter.

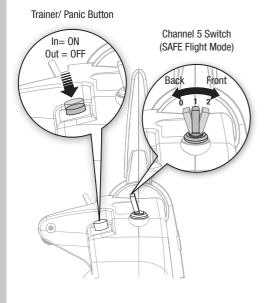
Easy Launching

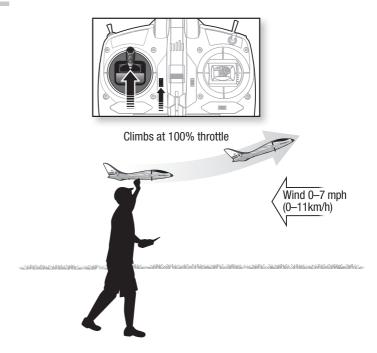
Launching is easier in Beginner mode if you hold the Panic Recovery button. Press and hold the button, then increase the throttle to 100%. Launch the aircraft. When the aircraft is up where you want to fly, release the button and decrease the throttle to 50–60%.

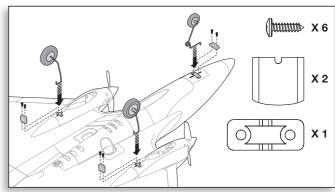
Ground Launch

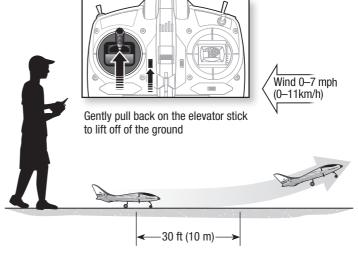
Use the Beginner mode for takeoff in first flights. If the ground is not hard and level, get help to hand launch your aircraft.

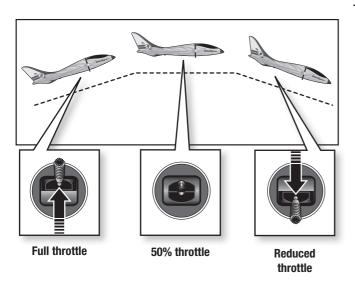
SAFE Flight Modes	Channel 5 Switch Position	
Beginner Mode	Position 0	
Intermediate Mode	Position 1	
Experienced Mode	Position 2	







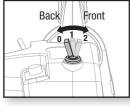


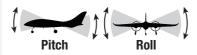


Flying

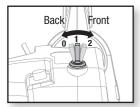
11

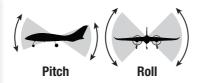
- In Beginner mode, when properly trimmed, your aircraft will climb at full throttle without use of the elevator stick
- Make small and steady control stick movements for smooth control of your aircraft.
- Let the aircraft climb at full throttle, into the wind, until the aircraft gets about 150 feet (46 meters) above the ground, then decrease the throttle to half (50%).
- Flying with the nose pointed toward you is one of the hardest things to do when learning to fly. To practice piloting the aircraft, try flying in large circles high off the ground.



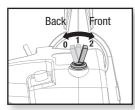


Beginner Mode (Switch Position 0)

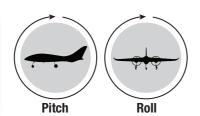




Intermediate Mode (Switch Position 1)



Experienced Mode (Switch Position 2)



NOTICE: If the aircraft is upside down when the Panic Recovery button is pressed, sufficient altitude is required for the aircraft to return to straight and level flight.

SAFE® Technology Flight Modes



Beginner Mode

Pitch (nose up and down) and Roll (wing tips up and down) angles are limited to help you keep the aircraft airborne

Self-leveling

Intermediate Mode

The pilot is only prevented from entering extreme flight conditions

Experienced Mode

Unlimited Flight Envelope

Panic Recovery



If you feel you have lost control in any mode, hold the Panic Recovery button. The SAFE technology will return the aircraft to a stable attitude (wings level with a slight climb). Always fly at a safe altitude, as Panic Recovery may cause the aircraft to lose some altitude when leveling the wings. Release the Panic Recovery button to turn off Panic mode and return to the current SAFE flight mode.

Optional Transmitter Setup

If using any DSMX transmitter other than the included DXe (3 pos gear switch) the radio will have to be configured correctly for the SAFE system to work properly.

• SAFE Flight mode is selected using Channel 5 signal (high, middle, low)

• Panic mode is selected with Channel 6 signal (high, low)

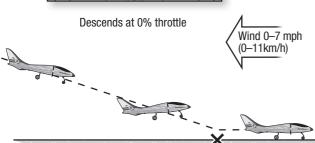
Refer to your transmitter's manual for more information about transmitter setup.

If you are using a 2 position switch for SAFE flight modes, only Beginner and Experienced modes will be active.

Transmitter	Gear/ Ch 5		SAFE Flight Modes Supported	Panic Recovery Switch	SAFE Flight Mode Switch
Throttle, Ailer	on, Elev	ator and Rudder are in Normal position. Set Dual Rates to Hi =100% and Low	<i>i</i> =70%		
DX4e (2pos)	N	Reverse Aux 1	2 pos	Trainer	ACT / AUX
DX4e (3pos)	N	Position sticks as shown and toggle panic switch 5 times 5X	3 pos	Trainer	Ch 5
DX5e (2pos)	N		2 pos	Trainer	Ch 5
DX5e (3pos)	N		3 pos	Trainer	Ch 5

Transmitter	Gear/ Ch 5	Aux 1	Flight Mode/ Panic Switch	SAFE Flight Modes Supported	Panic Recovery Switch	SAFE Flight Mode Switch
DXe			nsmitter that was not included with the Delta Ray will need to be correctl this aircaft. Visit www.spektrumRC.com to download the correct progran			1
DX6i	R	R	*(Flap System) Norm ↑ 100 Land ↓ 100	2 pos	Flaps	GEAR / F MODE
DX7	N	R	*(Flap System) Norm	2 pos	Flap	GEAR
DX7s	N	N	*(Switch Select) Gear to INH, FM to INH, Flap to Gear, Trainer to Aux 1	3 pos	Trainer	Flap
DX8	N	N	*(Switch Select) Gear to INH, FM to Gear, Flap to INH, Trainer to Aux 1	3 pos	Trainer	F MODE
DX6 DX7(G2) DX8(G2) DX9 DX18 DX20	N	N	*(Channel Input Config) Gear is B, Aux1 is switch i	3 pos	Bind / i	В
DX10t	N	N	*(Channel Input Config) Gear is A, Aux1 is R stick tip	3 pos	R-Tip	Α

N = Normal R = Reverse





Landing

Land the aircraft in Beginner mode.

CAUTION: Never catch a flying aircraft in your hands. Doing so could cause personal injury and damage to the aircraft.



Easy Landing

Landing is easier if you hold the Panic Recovery button. Line up for your landing, decrease the throttle to 0% and press and



hold the Panic Recovery button. The aircraft will glide down wings level with the nose up (flared) for landing.

NOTICE: If a crash is imminent, reduce the throttle. Failure to do so could result in extra damage to the airframe, as well as damage to the receiver and motors.

NOTICE: Crash damage is not covered under warranty.

1. Disconnect flight battery from aircraft (Required for Safety). 2. Remove flight battery from the aircraft. 3. Power off transmitter. 4. Recharge flight battery. 5. Repair or replace all damaged parts. 6. Store flight battery apart from the aircraft and monitor the battery charge. 7. Make note of flight conditions and flight plan results, planning for future flights.

Post Flight

NOTICE: When you are finished flying, never leave the aircraft in direct sunlight or in a hot, enclosed area such as a car. Doing so can damage the foam.

Adjusting Trim in Flight

Move the trim sliders for the controls as they are assigned on your transmitter. Familiarize yourself with your transmitter's controls and the aircraft's response before flying by performing the recommended Control Direction Test.

Elevator Trim

Trim the elevator at 50%–60% throttle. When the elevator is trimmed correctly, your aircraft will fly level at half throttle, climb steadily above half throttle and descend below half throttle.

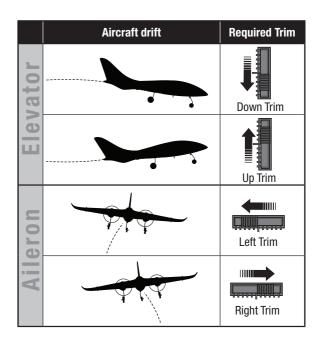
 If the aircraft's nose drifts up or down while the elevator stick is at neutral (centered) position, move the elevator trim slider by one or two "click" increments in the SAME direction as the drift.

Aileron Trim

When trimmed correctly, your aircraft flies with wings level.

 If the aircraft drifts left or right when the aileron stick is at neutral (centered) position, move the aileron trim slider by one or two "click" increments OPPOSITE the direction of roll.

If you must use more than 8 "clicks" on a trim slider to make the aircraft fly straight and level, land and adjust a control surface as described below.

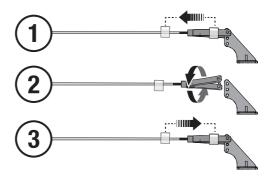


Manually Adjusting Trim

Perform manual adjustment of trim before increasing the throttle above 25% or SAFE will move the control surfaces when the aircraft is moved.

Return any trim setting on the transmitter to neutral by pushing the trim slider to the middle position, then adjusting the clevis on that control surface to position it the same as it was with the trim slider offset.

- 1. Remove the clevis from the control horn.
- Turn the clevis (as shown) to lengthen or shorten the pushrod.
- Close the clevis onto the control horn and slide the tube towards the horn to secure the clevis.



Troubleshooting Guide

Problem	Possible Cause	Solution
	Flying over recommended airspeed	Reduce air speed
	Damaged propeller or spinner	Replace propeller or spinner
	Motor vibration	Replace parts or correctly align all parts and tighten fasteners as needed
Oscillation	Loose receiver	Align and secure receiver in fuselage
OSCIIIAUOH		Tighten or otherwise secure parts (servo, arm, linkage, horn and
	Loose aircraft controls	control surface)
	Worn parts	Adjust gain to compensate for parts wear or replace worn parts (especially propeller, pivot points or servo)
Trim is at extreme and aircraft does not fly straight or level	Trim is not at neutral	If you adjust trim more than 8 clicks, adjust the clevis to mechanically remove trim
Aircraft will not re- spond to throttle but	Throttle not at lowest position or throttle trim too high	Reset controls with throttle stick and throttle trim at lowest setting
responds to other	Throttle channel is reversed	Reverse throttle channel on transmitter
controls	Motors disconnected from ESCs	Make sure motors are connected to the ESCs
Extra propeller noise or	Damaged propeller and spinner, collet or motor	Replace damaged parts
extra vibration	Propeller is out of balance	Balance or replace propeller
	Spinner is damaged or loose	Repair or replace damaged spinner
	Flight battery charge is low	Completely recharge flight battery
	Propeller installed backwards	Install propeller with numbers facing forward
Reduced flight time or aircraft underpowered	Propellers are installed incorrectly	Install propeller marked R on right and propeller marked L on the left
ancian unuerpowereu	Flight battery damaged	Replace flight battery and follow flight battery instructions
	Flight conditions may be too cold	Make sure battery is warm before use
Ainsorth will and Dind	Transmitter too near aircraft during binding process	Move powered transmitter a few feet from aircraft, disconnect and reconnect flight battery to aircraft
Aircraft will not Bind (during binding) to transmitter	Aircraft or transmitter is too close to large metal object, wireless source or another transmitter	Move aircraft and transmitter to another location and attempt binding again
Refer to the transmit- ter manual for binding	Flight battery/transmitter battery charge is too low	Replace/recharge batteries
instructions	Bind switch or button not held long enough during bind process	Power off transmitter and repeat bind process. Hold transmitter bind button or switch until receiver is bound
	Transmitter too near aircraft during connecting process	Move powered transmitter a few feet from aircraft, disconnect and reconnect flight battery to aircraft
Aircraft will not connect (after binding) to transmitter	Aircraft or transmitter is too close to large metal object, wireless source or another transmitter	Move aircraft and transmitter to another location and attempt connecting again
Refer to the transmit- ter manual for binding	Flight battery/Transmitter battery charge is too low	Replace/recharge batteries
instructions	Transmitter may have been bound to a different aircraft using different DSM protocol	Bind aircraft to transmitter
	Control surface, control horn, linkage or servo damage	Replace or repair damaged parts and adjust controls
Control surface does	Wire damaged or connections loose	Do a check of wires and connections, connect or replace as needed
not move	Flight battery charge is low	Fully recharge flight battery
	Receiver is damaged	Replace Receiver
Controls reversed	Transmitter settings are reversed	Perform the Control Direction Test and adjust the controls on transmitter appropriately
	Normal Low Voltage Cutoff (LVC)	Recharge flight battery or replace battery that is no longer performing
Motor power pulses	Weather conditions might be too cold	Postpone flight until weather is warmer
then motor loses	Battery is old, worn out, or damaged	Replace battery
ροννοι	Battery C rating might be too small	Use recommended battery
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Service and Repair

Thanks to the Z-Foam[™] material in the wing and fuselage of this aircraft, repairs to the foam can be made using virtually any adhesive (hot glue, regular CA [cyanoacrylate adhesive], epoxy, etc).

When parts are not repairable, see the Replacement Parts List for ordering by item number. For a listing of all replacement and optional parts, refer to the list at the back of this manual.

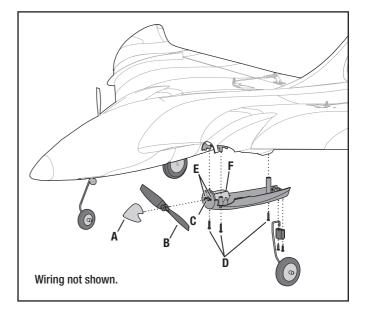


CAUTION: DO NOT handle a propeller, motor or ESC while the flight battery is connected to the ESC. Personal injury could result.

Disassembly

- Remove the spinner (A) by carefully pulling it away from the propeller (B).
- Hold the motor shaft (C) in place, then pull the propeller from the motor shaft.
- 3. Remove 3 screws (**D**) from the motor cowling under the wing.
- Remove the cowling (that contains the motor) from the wing. Paint may keep the cowling attached to the wing.
- 5. Remove 2 screws (E) from the front of the cowling that secures the motor.
- 6. Disconnect the motor wires from the ESC wires.
- 7. Remove the motor (**F**) and motor wires from the wing.
- 8. Assemble in reverse order.
- Correctly center and attach the spinner to the propeller hub using CA (cyanoacrylate adhesive).

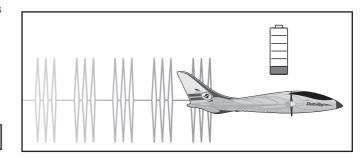
NOTICE: Make sure the propeller size numbers (4.75x2.5R for right side and 4.75X2.5L for left side) face out from the motor.



Prolong Battery Life

- Low Voltage Cutoff (LVC) pulses the power to the motors when the voltage gets low. When the motors pulse, land the aircraft immediately and recharge the flight battery.
- The aircraft can fly as recommended for approximately 8 minutes on one battery charge. Set a timer or stopwatch to let you know when it is time to land. However, if the motor begins to pulse (hits LVC), land immediately.

NOTICE: Repeated flying to LVC will damage the battery.



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 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, 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.

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.

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.

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Warranty and Service Contact Information

Country of Purchase	Horizon Hobby	Contact Information	Address
	Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby.com/ RequestForm/	
United States of America	Horizon Product Support (Product Technical Assistance)	productsupport@horizonhobby.com 877-504-0233	4105 Fieldstone Rd Champaign, Illinois, 61822 USA
	Sales	websales@horizonhobby.com 800-338-4639	
United Kingdom	Service/Parts/Sales: Horizon Hobby Limited	sales@horizonhobby.co.uk +44 (0) 1279 641 097	Units 1–4 , Ployters Rd, Staple Tye Harlow, Essex, CM18 7NS, United Kingdom
Germany	Horizon Technischer Service	service@horizonhobby.de	Christian-Junge-Straße 1
definally	Sales: Horizon Hobby GmbH	+49 (0) 4121 2655 100	25337 Elmshorn, Germany
France	Service/Parts/Sales: Horizon Hobby SAS	infofrance@horizonhobby.com +33 (0) 1 60 18 34 90	11 Rue Georges Charpak 77127 Lieusaint, France

FCC Information

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

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

This product contains a radio transmitter with wireless technology which has been tested and found to be compliant with the applicable regulations governing a radio transmitter in the 2.400GHz to 2.4835GHz frequency range.

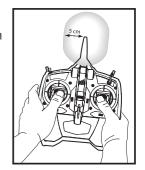
IC Information

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

Antenna Separation Distance

When operating your 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.

This illustration show the approximate 5 cm RF exposure area and typical hand placement when operating your transmitter.



(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

HBZ Delta Ray RTF (HBZ7900E)
EU Compliance Statement: Horizon Hobby, LLC hereby declares that this product is in compliance with the essential requirements and other relevant provisions of the R&TTE, EMC and LVD Directives.

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.

