

BLADE®

250 CFX



Instruction Manual
Bedienungsanleitung
Manuel d'utilisation
Manuale di Istruzioni



BASIC

SAFE® 

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 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, 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.

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.
- Always keep aircraft in sight and under control.
- Always move the throttle fully down at rotor strike.
- 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.
- Never operate aircraft with damaged wiring.
- Never touch moving parts.


 **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 technology.

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Specifications

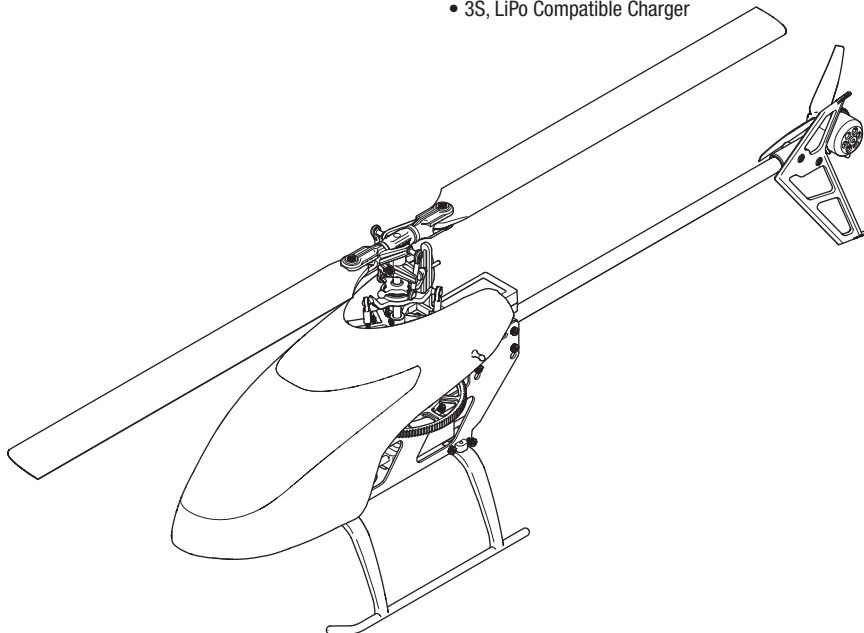
Length	18.2 in (463mm)	Tail Rotor Diameter	3.25 in (82.5mm)
Height	7.1 in (180 mm)	Flying Weight	16.1oz (457 g)
Main Rotor Diameter	21.7 in (550mm)		

Box Contents:

- Blade® 250 CFX BNF Basic Helicopter

Required Items:

- DSM2®/DSMX® Compatible Programmable Transmitter
- Flight Battery: 1350mAh 3S 11.1V 30C LiPo, 13AWG EC3™ (EFLB13503S30 recommended)
- 3S, LiPo Compatible Charger



To receive product updates, special offers and more, register your product at www.bladehelis.com.

First Flight Preparation

- Remove and inspect contents
- Begin charging the flight battery
- Program your computer transmitter
- Install the flight battery in the helicopter (once it has been fully charged)
- Bind your transmitter
- Familiarize yourself with the controls
- Find a suitable area for flying

Flying Checklist

- Always turn the transmitter on first**
- Plug the flight battery into the lead from the ESC
- Allow the receiver and ESC to initialize and arm properly
- Fly the model
- Land the model
- Unplug the flight battery from the ESC
- Always turn the transmitter off last**

Transmitter Setup Table

The rates given in the following tables are recommended settings. The values may be adjusted up or down to suit the flying style of the user.

DX6i

SETUP LIST	
Model Type	
HELI	
REVERSE	
Channel	Direction
THRO	N
AILE	N
ELEV	N
RUDD	N
GYRO	N
PITC	R
Swash Type	
1 servo Normal	
D/R COMBI	
D/R SW	AILE
Timer	
Down Timer	5:00
Switch	THR CUT
Modulation Type	
AUTO DSMX-ENABLE	

ADJUST LIST					
TRAVEL ADJ					
Channel		Travel			
THRO		100/100			
AILE		100/100			
ELEV		100/100			
RUDD		100/100			
GYRO		100/100			
PITC		100/100			
D/R & Expo					
Chan	Sw Pos	D/R		Expo	
AILE	0	100		+25	
	1	75		+25	
ELEV	0	100		+25	
	1	75		+25	
RUDD	0	100		+25	
	1	75		+25	
GYRO					
RATE	SW-F.MODE				
0	88%	NORM		0	
1	12%	STUNT		1	
Mix 1					
GYRO->GYRO		ACT			
Rate		D+125%		U+125%	
SW		ELE D/R		TRIM - INH	
Throttle Curve					
Switch Pos (F Mode)	Pos 1	Pos 2	Pos 3	Pos 4	Pos 5
NORM	0	25	50	75	100
STUNT	80	80	80	80	80
Pitch Curve					
Switch Pos (F Mode)	Pos 1	Pos 2	Pos 3	Pos 4	Pos 5
NORM	30	40	50	75	100
STUNT	0	25	50	75	100
HOLD	25	37	50	75	100

Panic Mode Operation

ELEV D/R Switch

Sw Pos 0 = Panic Mode Off

Sw Pos 1 = Panic Mode On

Once the model has returned to level you must manually return the Panic Mode Switch to the off position otherwise the cyclic and tail rotor controls will be reduced.

DX7s, DX8

SYSTEM SETUP	
Model Type	
HELI	
Swash Type	
1 servo Normal	
F-Mode Setup	
Flight Mode	F Mode
Hold	Hold
SW Select	
Trainer	Aux 2
F Mode	Gear
Gyro	INH
Mix	INH
Hold	INH
Knob	INH
Frame Rate	
11ms	
DSMX	

Panic Mode Operation

Trainer/Bind Button

Pressed = Panic Mode On

Released = Panic Mode Off

FUNCTION LIST										
Servo Setup										
Chan	Travel	Reverse	Chan	Travel	Reverse					
THR	100/100	Normal	GER	100/100	Normal					
AIL	100/100	Normal	PIT	100/100	Normal					
ELE	100/100	Normal	AX2	100/100	Normal					
RUD	100/100	Normal								
D/R & Expo					Throttle Curve					
Chan	Switch Pos (Ail D/R)	D/R	Expo	Switch Pos (F Mode)						
				DX7s	DX8	Pt 1	Pt 2	Pt 3	Pt 4	Pt 5
	0	100/100	+25	N	N	0	25	50	75	100
AIL	1	100/100	+25		1	80	80	80	80	80
	2	75/75	+25	1	2	100	100	100	100	100
ELEV	0	100/100	+25	HOLD	HOLD	0	0	0	0	0
	1	100/100	+25	Pitch Curve						
RUDD	2	75/75	+25	Switch Pos (F Mode)						
	0	100/100	+25	DX7s	DX8	Pt 1	Pt 2	Pt 3	Pt 4	Pt 5
	1	100/100	+25	N	N	30	40	50	75	100
	2	75/75	+25		1	0	25	50	75	100
	0	100/100	+25	1	2	0	25	50	75	100
	1	100/100	+25	HOLD	HOLD	25	37	50	75	100
	2	75/75	+25	Timer						
Mode		Count Down								
Time		5:00 Tone								
Start		Throttle Out								
Over		25%								

DX6

SYSTEM SETUP	
Model Type	
HELI	
Swash Type	
Normal	
F-Mode Setup	
Switch 1	Switch B
Hold Switch	Switch H
Channel Assign	
Channel Input Config	
1 Throttle	
2 Aileron	
3 Elevator	
4 Rudder	
5 Gear	Switch B
6 Collective	
Frame Rate	
11ms	
DSMX	

Panic Mode Operation

Bind / I Button

Pressed = Panic Mode On

Released = Panic Mode Off

FUNCTION LIST									
Servo Setup									
Chan	Travel	Reverse	Chan	Travel	Reverse				
THR	100/100	Normal	RUD	100/100	Normal				
AIL	100/100	Normal	GER	100/100	Normal				
ELE	100/100	Normal	PIT	100/100	Normal				
D/R & Expo					Throttle Curve				
Chan	Sw (F) Pos	D/R	Expo	Sw (B) Pos	Pt 1	Pt 2	Pt 3	Pt 4	Pt 5
	0	100/100	+25	N	0	25	50	75	100
AIL	1	75/75	+25	1	80	80	80	80	80
	0	100/100	+25	HOLD	0	0	0	0	0
ELEV	1	75/75	+25	Pitch Curve					
	0	100/100	+25	N	30	40	50	75	100
RUDD	1	75/75	+25	1	0	25	50	75	100
	0	100/100	+25	HOLD	25	37	50	75	100
Gyro									
Inhibit									
Timer									
Mode		Count Down							
Time		5:00							
Start		Throttle Out							
Over		25%							
One Time		Inhibit							
Mixing									
P-Mix 1		Normal							
		Channels	-I -> Ger						
		Rate	0/-125						
		Offset	100						
		Switch	Switch I						
Position	0	1							

DX7 (G2), DX8 (G2), DX9, DX18, DX20

SYSTEM SETUP	
Model Type	
HELI	
Swash Type	
Normal	
F-Mode Setup	
Switch 1	Switch B
Switch 2	Inhibit
Hold Switch	Switch H
	0 1
Channel Assign	
Channel Input Config	
1 Throttle	
2 Aileron	
3 Elevator	
4 Rudder	
5 Gear	Switch B
6 Collective	
7 AUX 2	Switch I
Frame Rate	
11ms	
DSMX	

FUNCTION LIST						
Servo Setup						
Chan	Travel	Reverse	Chan	Travel	Reverse	
THR	100/100	Normal	PIT	100/100	Normal	
AIL	100/100	Normal	AX2	100/100	Normal	
ELE	100/100	Normal	AX3	100/100	Normal	
RUD	100/100	Normal	AX4	100/100	Normal	
GER	100/100	Normal				
D/R & Expo						
Chan	Sw (F) Pos	D/R	Expo			
AILE	0	100/100	+25			
	1	100/100	+25			
	2	75/75	+25			
ELEV	0	100/100	+25			
	1	100/100	+25			
	2	75/75	+25			
RUDD	0	100/100	+25			
	1	100/100	+25			
	2	75/75	+25			
Gyro						
Inhibit						
Throttle Curve						
Sw (B) Pos	Pt 1	Pt 2	Pt 3	Pt 4	Pt 5	
N	0	25	50	75	100	
1	80	80	80	80	80	
2	100	100	100	100	100	
Pitch Curve						
Sw (B) Pos	Pt 1	Pt 2	Pt 3	Pt 4	Pt 5	
N	30	40	50	75	100	
1	0	25	50	75	100	
2	0	25	50	75	100	
HOLD	25	37	50	75	100	
Timer						
Mode	Count Down					
Time	5:00					
Start	Throttle Out					
Over	25%					
One Time	Inhibit					

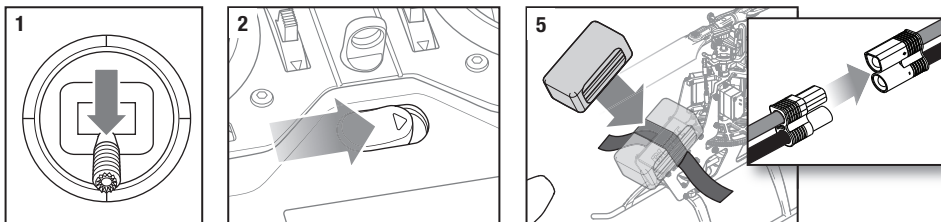
Panic Mode Operation

Bind / I Button

Pressed = Panic Mode On

Released = Panic Mode Off

Installing the Flight Battery



1. Lower the throttle stick to the lowest position.
2. Power ON the transmitter.
3. Center all trims.
4. Attach the hook material to the helicopter frame and the loop material to the flight battery.
5. Install the flight battery on the helicopter frame. Secure the flight battery with the hook and loop strap.

NOTICE: If the flight battery strap is pulled too tight, it may result in a vibration or the tail rotor may drift to the right during flight. If you experience either of these issues, loosen the strap slightly and fly again.

6. Connect the battery connector to the ESC, noting correct polarity.



CAUTION: Connecting the battery to the ESC with reversed polarity will cause damage to the ESC, the battery or both. Damage caused by incorrectly connecting the battery is not covered under warranty.

7. Place the helicopter on a flat surface and leave it still until the ESC beeps twice and the LED glows solid, indicating initialization is complete.

If you experience issues during initialization, refer to the Troubleshooting Guide at the back of the manual.



CAUTION: Always disconnect the Li-Po battery from the aircraft 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.

Transmitter and Receiver Binding

This product requires an approved Spektrum DSM2®/DSMX® compatible transmitter.

Visit www.bindnfly.com for a complete list of approved transmitters.

General Binding Procedure

1. Disconnect the flight battery from the helicopter.
2. Refer the Transmitter Setup Table to correctly setup your transmitter.
3. Lower the throttle stick to the lowest position. Set all trims to the center position.
4. Power off the transmitter and move all switches to the 0 position. Move the throttle to the low/off position.
5. Install the bind plug in the receiver BIND/PROG port (far left side of the receiver).
6. Connect the flight battery to the ESC. The receiver LED flashes, indicating it is in bind mode.
7. Put the transmitter into bind mode while powering on the transmitter.
8. Release the bind button/switch after 2–3 seconds. The helicopter is bound when the LED on the receiver turns solid.
9. Disconnect the flight battery and power the transmitter off.



CAUTION: When using a Futaba® transmitter with a Spektrum™ DSM2® module, you must reverse the throttle channel and re-bind. Refer to your Spektrum module manual for binding and failsafe instructions. Refer to your Futaba transmitter manual for instructions on reversing the throttle channel.

SAFE Technology

Revolutionary SAFE® (Sensor Assisted Flight Envelope) technology uses an innovative combination of multi-axis sensors and software that allows model aircraft to know its position relative to the horizon. This spatial awareness is utilized to create a controlled flight envelope the aircraft can use to maintain a safe region of bank and pitch angles so you can fly more safely. Far beyond stability, this level of protection offers multiple modes so the pilot can choose to develop his or her skills with a greater degree of security and flight control that always feels crisp and responsive.

SAFE technology delivers:

- Flight envelope protection you can enable at the flip of a switch.
- Multiple modes let you adapt SAFE technology to your skill level instantly.

Best of all, sophisticated SAFE technology doesn't require any work to enjoy. Every aircraft with SAFE installed is ready to use and optimized to offer the best possible flight experience.

FlySAFERC.com

Flight Mode and Rate Selection

In **Stability Mode** the bank angle is limited. When the cyclic stick is released the model will return to level.

In **Intermediate Mode** the bank angle is not limited. When the cyclic stick is released the model will not return to level. This mode is great for learning forward flight and basic aerobatics such as stall turns and loops.

In **Agility Mode** the bank angle is not limited. When the cyclic sticks is released the model will not return to level. This mode is great for 3D aerobatics such as stationary flips and tic tocs. Change rates by moving the two-position dual rate switch.

- Low rate reduces the control rates, providing an easier to fly model. Beginners should use low rate for initial flights.
- High rate provides full control and should be used by intermediate and experience pilots.

Panic Recovery

If you get into distress while flying in any mode, push and hold the Bind/Panic Switch and move the control sticks to their neutral position. SAFE technology will immediately return the aircraft to an upright level attitude, if the aircraft is at a sufficient height with no obstacles in its path. Return the collective stick to 50% and release the Panic Switch to turn off Panic Recovery and return to the current flight mode.

NOTICE: Before releasing the panic switch, make sure the collective stick has been returned to the 50% position. Once the panic switch has been released, full negative collective becomes available, which could cause the 250 CFX to descend rapidly.

- This mode is intended to provide the pilot with the confidence to continue to improve their flight skills.
- Move the collective stick to 50% and return all other transmitter controls to neutral for the quickest recovery.
- Once the model has reached a level upright attitude, the negative collective is reduced to prevent the user from pushing the model into the ground.

Throttle Hold

Throttle hold is used to prevent the motor from powering on inadvertently. For safety, turn throttle hold ON any time you need to touch the helicopter or check the direction controls.

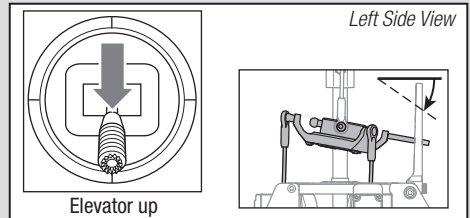
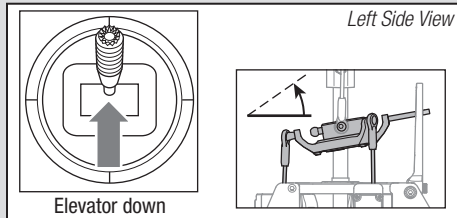
Throttle hold is also used to turn off the motor quickly if the helicopter is out of control, in danger of crashing, or both. The blades will continue to spin briefly when throttle hold is activated. Pitch and direction control is still maintained.

Control Tests

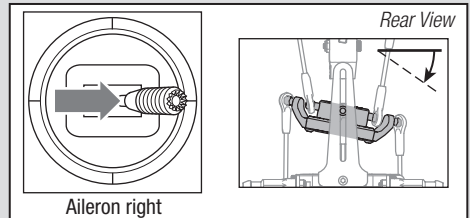
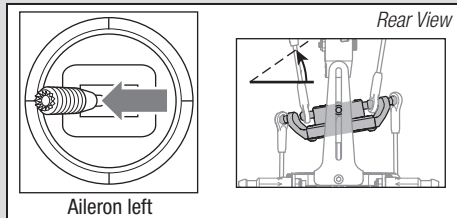
Ensure the throttle hold is ON when doing the direction control tests. Test the controls prior to the first flight to ensure the servos, linkages and parts operate correctly.

If the controls do not react as shown in the illustrations below, confirm the transmitter is programmed correctly before continuing on to the Motor test.

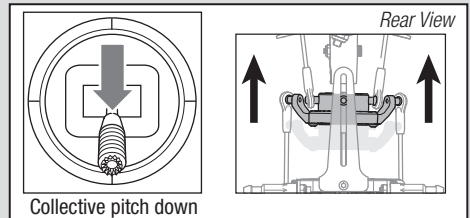
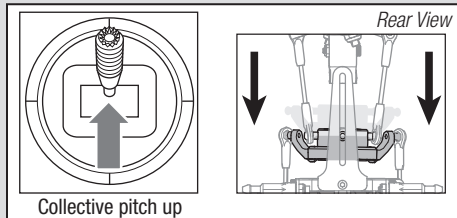
Elevator



Aileron



Collective Pitch



Motor

Place the helicopter outdoors on a clean, flat and level surface (concrete or asphalt) free of obstructions. Always stay clear of moving rotor blades.

CAUTION: Keep pets and other animals away from the helicopter. Animals may injure themselves if they attack or run toward the helicopter.

1. Both motors beep 3 times when the helicopter's ESC arms properly. Before you continue, confirm that throttle is at full low position.
2. Turn Throttle Hold OFF.

WARNING: Stay at least 30 feet (10 meters) away from the helicopter when the motor is running. Do not attempt to fly the helicopter at this time.

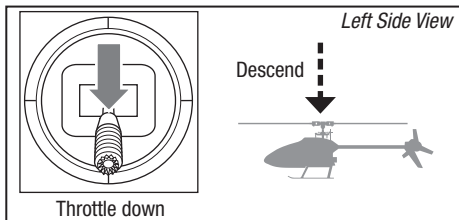
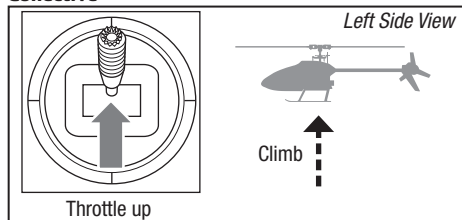
3. Slowly increase the throttle until the blades begin to spin. The main blades should spin clockwise when viewing the helicopter from the top. The tail rotor blades should spin counterclockwise when viewing the helicopter from the right side.

NOTICE: If the main rotor blades are spinning counterclockwise, reduce the throttle to low immediately. Disconnect the battery from the helicopter and reverse any two motor wire connections to the ESC and repeat the motor control test.

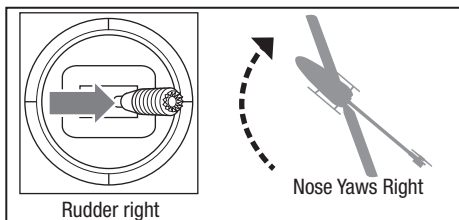
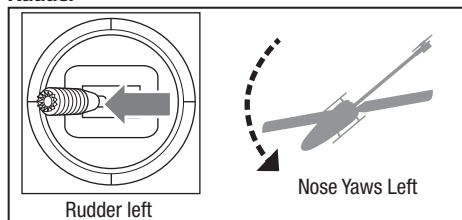
Understanding the Primary Flight Controls

If you are not familiar with the controls of your 250 CFX, take a few minutes to familiarize yourself with them before attempting your first flight.

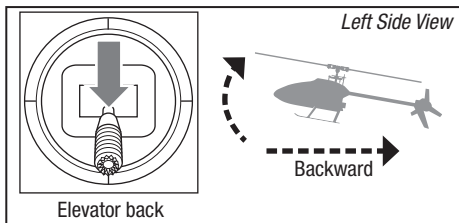
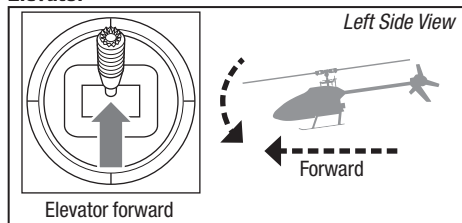
Collective



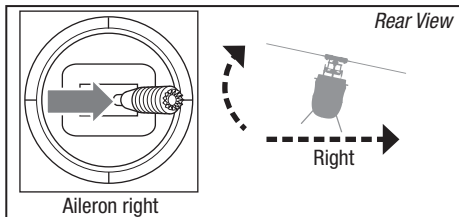
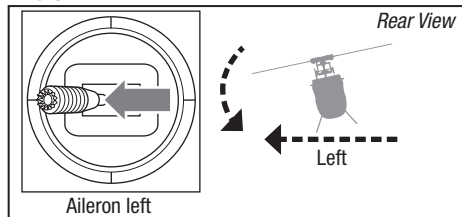
Rudder



Elevator



Aileron



Flying the 250 CFX

Consult your local laws and ordinances before choosing a location to fly your aircraft.

We recommend flying your aircraft outside in calm winds or inside a large gymnasium. Always avoid flying near houses, trees, wires and buildings. You should also be careful to avoid flying in areas where there are many people, such as busy parks, schoolyards or soccer fields.

It is best to fly from a smooth flat surface as this will allow the model to slide without tipping over. Keep the helicopter approximately 2 ft (600mm) above the ground. Keep the tail pointed toward you during initial flights to keep the control orientation consistent. Releasing the stick in Stability Mode will allow the helicopter to level itself. Activating the Panic Recovery button will level the helicopter quickly. If you become disoriented while in Stability Mode, slowly lower the throttle stick to land softly.

During initial flights, only attempt takeoff, landing and hovering in one spot.

Takeoff

NOTICE: If the main motor or tail motor do not startup properly when throttle is first applied, immediately return the throttle to idle and try again. If the problem persists, disconnect the flight battery, check for binding in the gear train and ensure no wires have become entangled within the gears.

Place the model onto a flat, level surface free of obstacles and walk back 30 feet (10 meters). Slowly increase the throttle until the model is approximately 2 ft. (600mm) off the ground and check the trim so the model flies as desired. Once the trim is adjusted, begin flying the model.

Advanced Settings

The 250 CFX default settings are appropriate for most users. We recommend flying with the default parameters before making any adjustments.

Gain Parameters

1. Cyclic P Gain Adjustment (Default 100%)

Higher gain will result in greater stability. Setting the gain too high may result in random twitches if your model has an excessive level of vibration. High frequency oscillations may also occur if the gain is set too high.

Lower gain will result in less stability. Too low of a value may result in a less stable model, particularly outdoors in winds.

If you are located at a higher altitude or in a warmer climate, higher gains may be beneficial—the opposite is true for lower altitude or colder climates.

Hovering

Making small corrections on the transmitter, try to hold the helicopter in one spot. If flying in calm winds, the model should require almost no corrective inputs. After moving the cyclic stick and returning it to center, the model should level itself. The model may continue to move due to inertia. Move the cycle stick in the opposite direction to stop the movement.

After you become comfortable hovering, you can progress into flying the model to different locations, keeping the tail pointed towards you at all times. You can also ascend and descend using the throttle stick. Once you're comfortable with these maneuvers, you can attempt flying with the tail in different orientations. It is important to keep in mind that the flight control inputs will rotate with the helicopter, so always try to picture the control inputs relative to the nose of the helicopter. For example, forward will always drop the nose of the helicopter.

Low Voltage Cutoff (LVC)

LVC decreases the power to the motors when the battery voltage gets low. When the motor power decreases and the red LED on the ESC flashes, land the aircraft immediately and recharge the flight battery.

LVC does not prevent the battery from over-discharge during storage.

NOTICE: Repeated flying to LVC will damage the battery.

Landing

To land, slowly decrease the throttle while in a low-level hover. After landing, disconnect and remove the battery from the aircraft after use to prevent trickle discharge. Fully charge your battery before storing it. During storage, make sure the battery charge does not fall below 3V per cell.



WARNING: To ensure your safety, always disconnect the motor wires from the ESC before performing the following steps. After you have completed the adjustments, reconnect the motor wires to the ESC before attempting to fly the model.

2. Cyclic I Gain Adjustment (Default 100%)

Higher gain will result in the model remaining still, but may cause low frequency oscillations if increased too far. *Lower gain* will result in the model drifting slowly.

If you are located at a higher altitude or in a warmer climate, higher gains may be beneficial—the opposite is true for lower altitude or colder climates.

3. Cyclic D Gain Adjustment (Default 100%)

Higher gain will improve the response rate of your inputs. If the gain is raised too much, high frequency oscillations may occur.

Lower gain will slow down the response to inputs.

4. Cyclic Response (Default 100%)

Higher cyclic response will result in a more aggressive cyclic response.

Lower cyclic response will result in a less aggressive cyclic response.

5. Tailrotor P Gain Adjustment (Default 100%)

Higher gain will result in greater stability. Setting the gain too high may result in random twitches if your model has an excessive level of vibration. High frequency oscillations may also occur if the gain is set too high.

Lower gain may result in a decrease in stability. Too low of a value may result in a less stable model particularly outdoors in winds.

If you are located at a higher altitude or in a warmer climate, higher gains may be beneficial—the opposite is true for lower altitude or colder climates.

6. Tailrotor I Gain Adjustment (Default 100%)

Higher gain results in the tail remaining still. If the gain is raised too far, low speed oscillations may occur.

Lower gain will result in the tail drifting in flight over time. If you are located at a higher altitude or in a warmer climate, higher gains may be beneficial—the opposite is true for lower altitude or colder climates.

7. Tailrotor D Gain Adjustment (Default 100%)

Higher gain will improve the response rate to your inputs.

If raised too far, high frequency oscillations may occur.

Lower gain will slow down the response to inputs, but will not have an effect on stability.

8. Tailrotor Adaptive Filtering

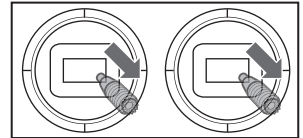
Higher gain will reduce oscillations during high speed flight and when using large amounts of collective.

Lower gain will improve tail performance but may lead to tail oscillations.

Entering Gain Adjustment Mode

1. Lower the throttle stick to the lowest position.
2. Power ON the transmitter.
3. Install the flight battery on the helicopter frame, securing it with the hook and loop strap.
4. Connect the battery connector to the ESC.
5. Place the helicopter on a flat surface and leave it still until the orange receiver LED glows solid, indicating initialization is complete.

6. Move and hold both transmitter sticks to the bottom right corner as shown.



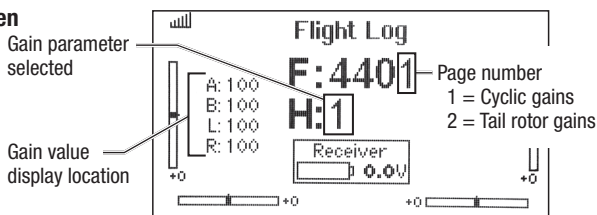
7. Press and hold the bind/panic switch until the swash servos move.
8. Release the sticks and the bind/panic switch. The model is now in Gain Adjustment Mode.
9. Proceed to Adjusting the Gain Values to make any desired changes.

Adjusting the Gain Values

If you are using a Spektrum™ telemetry-enabled transmitter, the gain adjustments can be viewed on the Flight Log screen. Refer to your transmitter instructions to locate this screen. The gain parameter currently selected will flash

on the transmitter screen. If you are not using a Spektrum telemetry-enabled transmitter, the parameter and gain values are indicated by the position of the swashplate on the helicopter.

Flight Log Screen



Once you have entered Gain Adjustment Mode, move the cyclic stick right and left to select the gain parameter to adjust. Moving the stick right will select the next parameter. Moving the stick left will select the previous parameter.

The selected gain parameter is indicated on the Flight Log screen above and by the lean of the swashplate on the roll axis as shown in the table at the right.

Parameter #	Display location	Swash Position	Page #
1	A	100% to the Left	1
2	B	70% to the Left	1
3	L	40% to the Left	1
4	R	10% to the Left	1
5	A	10% to the Right	2
6	B	40% to the Right	2
7	L	70% to the Right	2
8	R	100% to the Right	2

The current gain value for the selected parameter is indicated on the Flight Log screen and by the angle of the swashplate (forward or backward) as shown in the table at the right.

Move the cyclic stick forward or backward to adjust the gain value. Moving the stick *forward* will increase the gain value. Moving the stick *backward* will decrease the gain value.

It is always best to adjust one gain at a time. Make small adjustments (5% or less) and test fly the model to evaluate the adjustments that were made.

If you would like to reset the current gain value to the default value of 100%, move and hold the rudder stick full right for 1 second. The swash will level on the pitch axis, indicating a 100% gain setting.

Servo Adjustment

Your helicopter was setup at the factory and test flown. The servo adjustment steps are usually only necessary in special circumstances, such as after a crash or if a servo or linkage is replaced.

Entering Servo Adjustment Mode

1. Lower the throttle stick to the lowest position.
2. Power ON the transmitter.
3. Install the flight battery on the helicopter frame, securing it with the hook and loop strap.
4. Connect the battery connector to the ESC.
5. Place the helicopter on a flat surface and leave it still until the orange receiver LED glows solid, indicating initialization is complete.

Adjusting the Servo Neutral Position

With the model in Servo Adjustment Mode, the control stick and gyro inputs are disabled and the servos are held in the neutral position. Check the position of the servo arms to see if they are perpendicular to the servos.

- If the arms are perpendicular to the servos, no adjustment is necessary. Exit Servo Adjustment Mode.
- If one or more servo arm is not perpendicular to the servos, continue the servo adjustment process.

While watching the swashplate servos, apply right cyclic and release. One of the servos will jump, indicating which servo is selected. Press right cyclic and release until the servo that needs to be adjusted is selected.

Saving the Servo Adjustments

Before saving your adjustments and exiting servo adjustment mode, verify the swashplate is level and both main rotor blades are at 0 degrees. If they are not, make linkage adjustments as necessary.

1. Lower the throttle stick to the lowest position and release the sticks.

Swash Position	Gain Value
Full backward	0%
50% backward	50%
Level forward and backward	100%
50% forward	150%
Full forward	200%

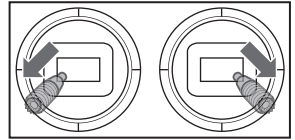
Saving the Gain Adjustments

1. Lower the throttle stick to the lowest position and release the sticks.
2. Press and hold switch I until the swash servos move.
3. Release switch I to save the gain adjustments.
4. Reconnect the main drive motor to the ESC. Your model is now ready for flight.



WARNING: To ensure your safety, always disconnect the motor wires from the ESC before performing the following steps. After you have completed the adjustments, reconnect the motor wires to the ESC before attempting to fly the model.

6. Hold the left stick to the bottom left corner and the right stick to the bottom right corner as shown.



7. Hold the bind/panic switch until the swash servos move.
8. Release the sticks and the bind/panic switch. The model is now in Servo Adjustment Mode.
9. Proceed to Adjusting the Servo Neutral Position to make any desired changes.

Once the servo you wish to adjust is selected, move the cyclic stick forward or backward to adjust the servo neutral position in the desired direction.

If you would like to reset the current servo to the default neutral position, hold the rudder stick full right for 1 second.

The range of adjustment is limited. If you are unable to adjust the servo arm to be perpendicular to the servo, you must reset the servo to the default neutral position, remove the servo arm and place it back onto the servo as close to perpendicular as possible. You may then adjust the servo neutral position using the forward/backward cyclic stick.

2. Press and hold switch I until the swash servos move.
3. Release switch I to save the servo adjustments.
4. Reconnect the main drive motor to the ESC. Your model is now ready for flight.

All of the settings are stored internally, so your adjustments will be maintained each time you initialize the model.

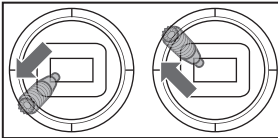
Trim Flight

Perform this procedure if the model is not performing well or has been recently rebuilt from a crash.

The trim flight procedure was performed during the factory test flight and only needs to be performed if you notice the model is not returning to level consistently or if the model does not remain still during stationary pirouettes. The trim flight is used to determine the optimal settings for SAFE® technology during flight.

The trim flight must be performed in calm conditions.

Entering Trim Flight Mode

1. Lower the throttle stick to the lowest position.
 2. Center all trims.
 3. Power ON the transmitter.
 4. Install the flight battery in the helicopter.
 5. Connect the battery connector to the ESC.
 6. Place the helicopter on a flat surface and leave it still until the motor beeps twice and the ESC LED glows solid, indicating initialization is complete.
 7. Place the helicopter where you are going to take off.
 8. Move and hold the left stick to the bottom left corner and the right stick to the top left corner as shown.
- 
9. Press and hold the bind/panic switch until the swashplate rotates around once.
 10. Release the sticks and bind/panic switch.
 11. The model is ready for the trim flight.

Performing the Trim Flight

1. Slowly increase the throttle to lift the model into a stationary hover. Make corrections as necessary to keep the model still. Evaluation does not begin until the throttle stick is over 50% and the sticks are centered. Making corrections will not affect the result but a longer flight may be necessary.
2. Keep the model stationary in a hover for a total of 30 seconds. Sliding and slow movements are okay. The main goal is to keep the rotor disk level.
3. Once you are satisfied with the trim flight, land the model.

Exiting Trim Flight Mode

1. After landing, lower the throttle stick to the lowest position.
2. Press and hold the bind/panic switch for 2 seconds, or until the swashplate twitches, indicating the servo positions and attitude values have been recorded and trim flight mode has been exited.

Flight Test

After performing the trim flight, test-fly the model to evaluate the leveling characteristics.

- The model should return to level flight consistently.
- During takeoff, the model should lift off with minimal corrections.
- During a hover, the control stick should remain close to center. Small corrections are acceptable.

If the model performs poorly or does not level properly after the trim flight, retry the entire

trim flight procedure. If the problem persists, inspect the model for damaged components, a bent shaft or anything that may result in increased vibration. The trim flight may not record the correct values due to excessive vibration, flying in wind or the model not staying level. In these cases, shorter trim flights may be necessary. Try the 30-second, level trim flight without corrections mentioned above first. If the leveling characteristics are not satisfactory, gradually shorten the trim flights, checking for improvements until the model performs as described.

Calibration Procedure

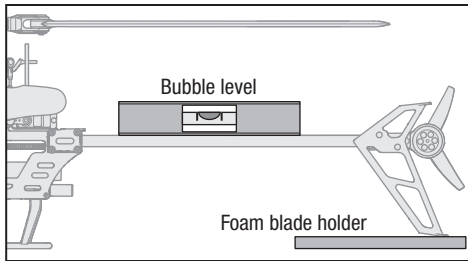
If the Blade 250 CFX is experiencing drift issues after completing the trim flight procedure located at www.bladehelis.com, perform the following calibration. The calibration procedure may also be needed following crash repairs.



WARNING: Before beginning the calibration procedure, disconnect the main motor and tail motor leads to prevent accidental motor startup during calibration.

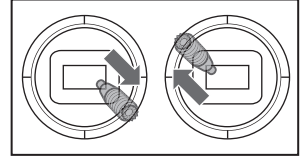
To perform the calibration procedure:

1. Ensure the surface used for calibration is level.
2. Power on the transmitter and helicopter, allowing them to initialize.
3. Turn Throttle Hold ON.
4. **Ensure the main motor and tail motor leads are disconnected.** Set the flight mode switch to Intermediate Mode (FM1).
5. Using a bubble level as shown below, level the helicopter by placing the Blade 250 CFX foam blade holder under the tail fin. Use additional items, as necessary, to build up under the tail fin until the tail boom is level.



6. Hold the left stick to the bottom right corner, the right stick to the upper left corner and press the bind button until the LED on the receiver flashes once.
7. Release both sticks and the bind button.

8. The LED on the receiver will remain solid for 1-2 minutes while the calibration takes place. Do not move the helicopter until the calibration is completed.



- If the LED begins blinking rapidly, an error has occurred. Begin the calibration procedure again, starting with step 1.
9. After the calibration is successfully completed, the receiver LED will blink slowly (2 seconds on, 2 seconds off).
 10. Power the helicopter off.
 11. Reconnect the main motor and tail motor wires.
 12. Perform the trim flight procedure as shown in the Advanced Settings Addendum available at www.bladehelis.com.
 13. During subsequent flights after the trim flight, the helicopter should return to within 5 degrees of level consistently.

Post-Flight Inspection and Maintenance Checklist

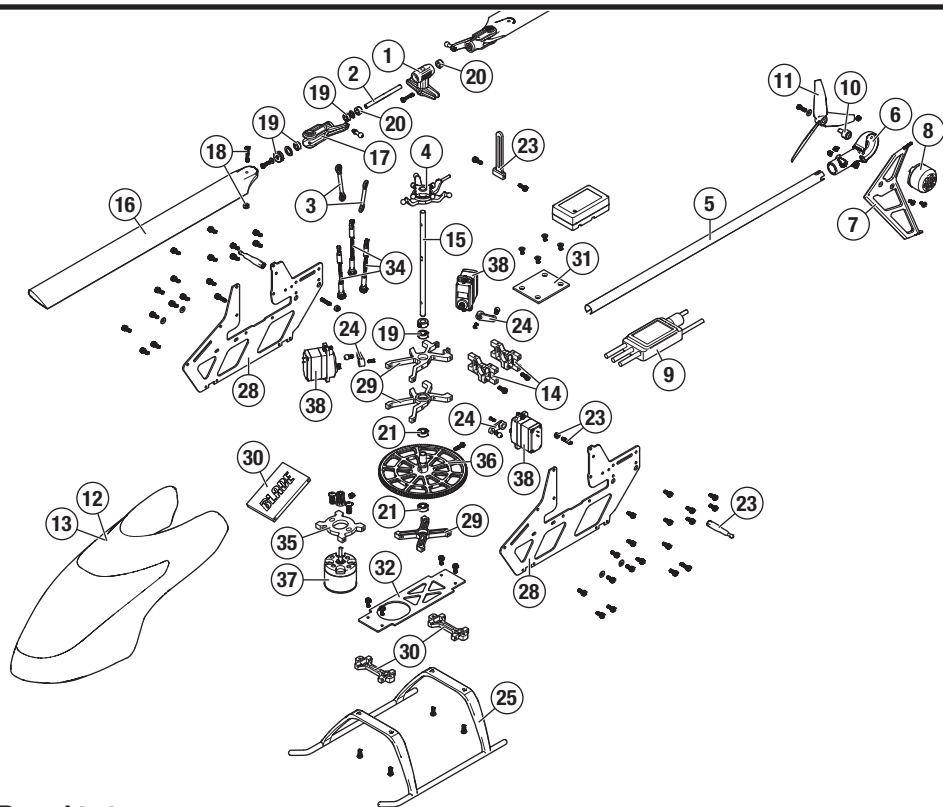
✓		
Ball Links	Make sure the plastic ball link holds the control ball, but is not tight (binding) on the ball. When a link is too loose on the ball, it can separate from the ball during flight and cause a crash. Replace worn ball links before they fail.	
Cleaning	Make sure the battery is not connected before cleaning. Remove dust and debris with a soft brush or a dry, lint-free cloth.	
Bearings	Replace bearings when they become notchy (sticky in places when turning) or draggy.	
Wiring	Make sure the wiring does not contact moving parts. Replace damaged wiring and loose connectors.	
Fasteners	Make sure there are no loose screws, other fasteners or connectors. Do not over-tighten metal screws in plastic parts. Tighten screws so the parts are mated together, then turn the screw only 1/8th of a turn more.	
Rotors	Make sure there is no damage to rotor blades and other parts which move at high speed. Damage to these parts includes cracks, burrs, chips or scratches. Replace damaged parts before flying. Verify both main rotor blades have the correct and equal tension in the blade grips. When the helicopter is held up sideways, the main blades should support their own weight. When the helicopter is shaken lightly, the blades should fall.	
Tail	Inspect the tail rotor for damage and replace if necessary. Verify the tail motor bolts, tail rotor adapter bolts and tail motor mount bolts are properly tightened. Inspect the tail boom for any damage and replace if necessary.	
Mechanics	Inspect the main frame and landing gear for damage and replace if necessary. Check the mainshaft for vertical play and adjust the locking collar if necessary. Verify that the main gear mesh is correct and that no tight spots exist in the 360 degree rotation. Inspect all wires for damage and replace as necessary.	

Troubleshooting Guide

Problem	Possible Cause	Solution
Helicopter control response is inconsistent or requires extra trim to neutralize movement	Aircraft was not initialized properly or a vibration is interfering with the sensor operation	Disconnect the flight battery, center the control trim and re-initialize the helicopter
Helicopter will not respond to throttle	Throttle too high and/or throttle trim is too high	Disconnect the flight battery, place the throttle stick in the lowest position and lower the throttle trim a few clicks. Connect the flight battery and allow the model to initialize
	Helicopter moved during initialization	Disconnect the flight battery and re-initialize the helicopter while keeping the helicopter from moving
Helicopter has reduced flight time or is under-powered	Flight battery charge is low	Completely recharge the flight battery
	Flight battery is damaged	Replace the flight battery and follow the flight battery instructions
	Flight conditions might be too cold	Make sure the battery is warm (room temperature) before use
LED on receiver flashes rapidly and aircraft will not respond to transmitter (during binding)	Transmitter too near aircraft during binding process	Power off the transmitter. Move the transmitter a larger distance from the aircraft. Disconnect and reconnect the flight battery to the aircraft. Follow the binding instructions
	Bind switch or button was not held while transmitter was powered on	Power off transmitter and repeat bind process
	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

Problem	Possible Cause	Solution
LED on the receiver flashes rapidly and the helicopter will not respond to the transmitter (after binding)	The bind plug was not removed from the receiver after binding	Disconnect the flight battery, remove the bind plug from the receiver and reconnect the flight battery.
	Less than a 5-second wait between first powering on the transmitter and connecting the flight battery to the helicopter	Leave the transmitter powered on. Disconnect and reconnect the flight battery to the helicopter
	The helicopter is bound to a different model memory (ModelMatch™ transmitters only)	Select the correct model memory on the transmitter. Disconnect and reconnect the flight battery to the helicopter
	Flight battery or transmitter battery charge is too low	Replace or recharge batteries
	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
Helicopter vibrates or shakes in flight	Damaged rotor blades, spindle or blade grips	Check main rotor blades and blade grips for cracks or chips. Replace damaged parts. Replace bent spindle
Random movements in flight	Vibration	Verify the receiver is properly attached to the helicopter. Inspect mounting tape for damage. Verify that no wires are contacting the receiver. Inspect and balance all rotating components. Verify the main shaft and tail rotor adapter are not damaged or bent. Inspect mechanics for broken or damaged parts and replace as necessary
Tail oscillation/wag or poor performance	Damaged tail rotor, main gear mesh, loose bolts, vibration	Verify that the boom support bolts are tight and the plastic boom support ends are properly adhered to the boom support rods. Inspect the tail rotor for damage. Verify that all bolts on the tail assembly are properly tightened. Verify main gear mesh and ensure no tight spots in the mesh through full rotation. Replace any damaged or worn components
Drift in calm winds	Vibration, damaged linkage, damaged servo	Under normal operation the transmitter trims should not require adjustment and the center positions are memorized during initialization. If you find that trim adjustments are necessary after take off, verify the balance of all rotating components, ensure the linkages are not damaged and make sure the servos are in proper working condition
Drift in wind	Normal	The model will drift with the wind but should remain level in flight. Simply hold the cyclic stick in the necessary position to keep the model stationary. The model must lean into the wind to remain stationary, if the model remains level then it will drift with the wind
Panic Recovery or Return to Level does not level the model	Model was not initialized on a level, still surface	Re-initialize the model on a level and still surface
	Model was not taken off of a level surface	Always lift off from a level surface
Severe vibration	Battery strapped too tightly to the model	Loosen the battery strap
	Rotating component out of balance	Check the main shaft, tail rotor, main rotor blades, main frame and adapter for damage, replace as necessary. Vibration must be minimized for Panic Recovery and Return to Level functions to work properly

Exploded View



Parts Listings

Part #	Description
1	BLH1501 Main rotor head: Blade 230s
2	BLH1502 Spindle set: Blade 230s
3	BLH1504 Main rotor head linkage set: Blade 230s
4	BLH1505 Swashplate: Blade 230s
5	BLH1512 Tail boom: Blade 230s
6	BLH1513 Tail motor mount: Blade 230s
7	BLH1514 Vertical tail fin: Blade 230s
8	BLH1515 Tail motor 3600kv: Blade 230s
9	BLH4484 Dual Brushless ESC: 250 CFX
10	BLH2020 Tail Rotor Hub Set: 200 SR X
11	BLH2021 Tail Rotor Blade Set (2), White: 200 SR X
12	BLH4481RE Stock Canopy Red: 250 CFX
13	BLH4481YE Stock Canopy Yellow: 250 CFX
14	BLH4482 Tail Boom Mount: 250 CFX
15	BLH4483 Main Shaft w/ Spacer: 250 CFX
16	BLH4501C 245mm CF Main Rotor Blade: 300 X, BSR
17	BLH4502 Main Rotor Blade Grips: 300 X
18	BLH4503 Main Rotor Blade Mounting Screw & Nut (2): 300 X
19	BLH4504 Main Grip Bearing Kit: 300 X

Part #	Description
20	BLH4505 Dampers (4): 300 X
21	BLH4515 Bearings 4x8x3 (3): 300 X
22	BLH4517 Canopy Mounts (2): 300 X
23	BLH4518A Aluminum Anti-Rotation Bracket/Guide: 300 X
24	BLH4519A Aluminum Servo Control Arms: 300 X
25	BLH4520 Landing Gear Set: 300 X
26	BLH4541 Mini Helicopter Main Blade Holder: 300 X
27	BLH4544 Mounting Access, Screwdriver & Wrench: 300 X
28	BLH4601 Main Frame: 300 CFX
29	BLH4602 Bearing Blocks: 300 CFX
30	BLH4603 Bottom Plate Mount: 300 CFX
31	BLH4605 Gyro Mount: 300 CFX
32	BLH4606 Bottom Plate: 300 CFX
33	BLH4607 Battery Mount: 300 CFX
34	BLH4608 Swash Links: 300 CFX
35	BLH4612 Main Motor Mount: 300 CFX
36	EFLH1509 Main Gear: BSR
37	EFLM1160H 320H Helicopter Motor, 4500kv: 300 X
38	SPMSH3050 H3050 Sub-Micro Digital Heli Cyclic MG Servo

Optional Parts

Part #	Description
EFLB13503S30	1350mAh 3S 11.1V 30C LiPo, 13AWG EC3
BLH1501A	Aluminum Main Rotor head : 230 S
BLH1505A	Aluminum Swashplate : 230 S
BLH1513A	Aluminum Tail case set : 230 S
BLH1519A	Aluminum Blade grips : 230 S
BLH1578	Rotor Head Assembly: 230S
BLH1610	Pinion Gear, 10T 0.5M: B450, B400
BLH4612	Main Motor Mount: 300 CFX
EFLA261	Micro/Mini Heli Tool Assortment, 6 pc

Part #	Description
EFLC3016	3S DC Li-Po Balancing Charger: 3.5A
EFLC4030	3.0-Amp Power Supply, 100-240V AC-12V DC
EFLH1000	Micro/Mini Helicopter Pitch Gauge
	DX6 DSMX 6-Channel Transmitter Only
	DX7 DSMX 7-Channel Transmitter Only
	DX8 DSMX 8-Channel Transmitter Only
	DX9 DSMX 9-Channel Transmitter Only
	DX18 DSMX 18-Channel Transmitter Only
	DX20 DSMX 20-Channel Transmitter Only

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, (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 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 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.

10/15

Warranty and Service Contact Information

Country of Purchase	Horizon Hobby	Contact Information	Address
United States of America	Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby.com/RequestForm/	4105 Fieldstone Rd Champaign, Illinois, 61822 USA
	Horizon Product Support (Product Technical Assistance)	productsupport@horizonhobby.com 877-504-0233	
	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 Sales: Horizon Hobby GmbH	service@horizonhobby.de +49 (0) 4121 2655 100	Christian-Junge-Straße 1 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

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



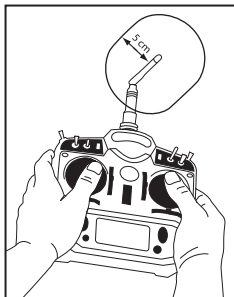
CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

Antenna Separation Distance

When operating your Spektrum transmitter, please be sure to maintain a separation distance of at least 5 cm between your body (excluding fingers, hands, wrists, ankles and feet) and the antenna to meet RF exposure safety requirements as determined by FCC regulations.

The 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 license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Compliance Information for the European Union



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 and EMC 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 make sure 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.



E328

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Patents pending.

Created 5/16

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