• 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 a Spektrum component 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.
Box Contents
- Blade® 180 CFX
- 450mAh 3S 11.1V 30C Li-Po Battery

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Specifications
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>13.4 in (340mm)</td>
</tr>
<tr>
<td>Height</td>
<td>5.1 in (130mm )</td>
</tr>
<tr>
<td>Main Rotor Diameter</td>
<td>14.2 in (360mm)</td>
</tr>
<tr>
<td>Tail Rotor Diameter</td>
<td>3.6 in (90.5mm)</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>6.7 oz (190 g)</td>
</tr>
</tbody>
</table>

Included Items

<table>
<thead>
<tr>
<th>Components</th>
<th>Motor</th>
<th>Brushless Outrunner</th>
<th>installed</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESC</td>
<td>Castle Creations 15A</td>
<td>installed</td>
<td></td>
</tr>
<tr>
<td>Flybarless Unit</td>
<td>Spektrum™ AR6335 6-Channel AS3X® Nanolite Receiver</td>
<td>installed</td>
<td></td>
</tr>
<tr>
<td>Swash Servos</td>
<td>Nanolite High-Speed</td>
<td>installed</td>
<td></td>
</tr>
<tr>
<td>Tail Servo</td>
<td>DS76T Sub-Micro Digital Tail</td>
<td>installed</td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>450mAh 3S 11.1V 30C Li-Po Battery</td>
<td>included</td>
<td></td>
</tr>
</tbody>
</table>

Required Items

<table>
<thead>
<tr>
<th>Components</th>
<th>Charger</th>
<th>Dynamite® Prophet™ Sport Li-Po 35W AC Charger (DYNC2005)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter</td>
<td>Full Range DSM2®/DSMX® technology transmitter (DX6i and up)</td>
<td></td>
</tr>
</tbody>
</table>

To register your product online, visit www.bladehelis.com
First Flight Preparation

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

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 THE POWER SUPPLY, CHARGER AND BATTERY 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 40–120º F (5–49° C). Do not store the battery or model 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.
- 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 a 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 charge damaged batteries.
- Never attempt to dismantle or alter the charger.
- Never allow minors to charge battery packs.
- Never charge batteries in extremely hot or cold places (recommended between 40–120º F (5–49° C)) or place in direct sunlight.

Battery Charging

Choose a charger designed to balance charge 3S Li-Po batteries. We recommend the Dynamite Prophet Sport Li-Po 35W AC Charger (DYN2005). Refer to your charger manual for charging instructions.

Transmitter Setup

Program your transmitter before attempting to bind or fly the helicopter. Transmitter programming values are shown below for the Spektrum DX6i, DX7/DX7se, DX6, DX7s, DX8, DX9 and DX18. The files for models using Spektrum™ transmitters with AirWare™ software are also available for download online in the Spektrum Community.

### DX6i

<table>
<thead>
<tr>
<th>SETUP LIST</th>
<th>ADJUST LIST</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Type</strong></td>
<td><strong>Thro Curve</strong></td>
</tr>
<tr>
<td>HELI</td>
<td>NORM: 0% 25% 25% 25% 25% 25%</td>
</tr>
<tr>
<td>SWASH Type</td>
<td></td>
</tr>
<tr>
<td>Timer</td>
<td>3:00</td>
</tr>
</tbody>
</table>
### DX7/DX7se

#### SYSTEM LIST
- **Model Type**: HELI
- **Swatch Type**: 1 Servo 90

#### FUNCTION MODE
- **D/R & EXP**
  - 0-AILE: 100% 0%
  - 0-ELEV: 100% 0%
  - 0-RUDD: 100% INH
  - 1-AILE: 85% 0%
  - 1-ELEV: 85% 0%
  - 1-RUDD: 85% INH

#### Throttle Curve
- **NORM**: 0% 25% 25% 25% 25%
- **ST-1**: 75% 75% 75% 75% 75%
- **ST-2**: 100% 100% 100% 100% 100%
- **HOLD**: 0% 0% 0% 0% 0%

#### Pitch Curve
- **NORM**: 30% INH 50% INH 100%
- **ST-1**: 0% INH 50% INH 100%
- **ST-2**: 0% INH 50% INH 100%
- **HOLD**: 0% INH 50% INH 100%

#### Throttle Curve
- **NORM**: 0% 25% 25% 25% 25%
- **ST-1**: 75% 75% 75% 75% 75%
- **ST-2 (DX8, 9, 18)**: 100% 100% 100% 100% 100%
- **HOLD**: 0% 0% 0% 0% 0%

#### Reverse SW
- **THRO**: N RUDD N
- **AILE**: N GEAR N
- **ELEV**: N PIT. N

#### Gyro SENS
- AUTO F.MODE
- STNT 50%
- HOLD 50%

#### Timer
- MODE Countdown
- TIME 3:00 Tone/Vibe
- START Throttle Cut
- POS 25

### DX6/DX7s/DX8/DX9/DX18

#### FUNCTION LIST
- **D/R & Expo**
  - 0-AILE: 100% 0%
  - 0-ELEV: 100% 0%
  - 0-RUDD: 100% 0%
  - 1-AILE: 85% 0%
  - 1-ELEV: 85% 0%
  - 1-RUDD: 85% 0%
  - 2-AILE: 85% 0%
  - 2-ELEV: 85% 0%
  - 2-RUDD: 85% 0%

#### Throttle Curve
- **NORM**: 0% 25% 25% 25% 25%
- **ST-1**: 75% 75% 75% 75% 75%
- **ST-2 (DX8, 9, 18)**: 100% 100% 100% 100% 100%
- **HOLD**: 0% 0% 0% 0% 0%

#### Reverse SW
- **THRO**: N
- **AILE**: N
- **ELEV**: N
- **RUDD**: N
- **GEAR**: N
- **PIT.**: N

#### Gyro SW
- **F Mode Gear**
- NORMAL/POS 0 75%
- STUNT 1/POS 1 75%
- STUNT 2/POS 2 75%
- HOLD 75%

#### Timer
- MODE Countdown
- TIME 3:00 Tone/Vibe
- START Throttle Cut
- POS 25

#### Frame Rate
- 22ms

#### SERVO SETUP
- **Travel**
  - **THRO**: Low: 100% Hi: 110%
  - **AILE**: 100%
  - **ELEV**: 100%
  - **RUDD**: 100%
  - **GEAR**: 100%
  - **PIT.**: 100%
Installing the Flight Battery

1. Lower the throttle.
2. Power on the transmitter.
3. Center the throttle trim.
4. To allow the ESC to arm and to keep rotors from initiating at startup, turn on throttle hold and normal flight mode before connecting the flight battery. Please refer to your transmitter manual for more information on programming throttle hold and normal flight mode.
5. Attach hook material to the helicopter frame and loop material to the battery.
6. Install the flight battery on the helicopter frame. Secure the flight battery with a hook and loop strap. Connect the battery cable to the ESC.

**CAUTION:** Always keep the power lead positioned AWAY from the elevator servo. Failure to do so could cause the lead to get caught and will result in crash causing property damage and injury.

**CAUTION:** Make sure the flight battery does not come in contact with the motor. Failure to do so will cause the motor, ESC and battery to overheat, resulting in crash, causing property damage and injury.

7. Do not move the helicopter until the receiver initializes. The LED on the receiver glows solid when the helicopter is initialized.
8. The helicopter motor will emit 2 tones, indicating the ESC is armed.

**CAUTION:** Always disconnect the Li-Po 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.
Transmitter and Receiver Binding

Binding is the process of programming the receiver to recognize the GUID (Globally Unique Identifier) code of a single specific transmitter. You need to ‘bind’ your chosen Spektrum™ DSM2/DSMX technology equipped aircraft transmitter to the receiver for proper operation.

Binding Procedure

1. Disconnect the flight battery from the helicopter.
2. Refer to the Transmitter Setup Table to correctly set up your transmitter.
3. Lower the throttle and throttle trim to the lowest position.
4. Power off the transmitter and move all switches to the 0 position.
5. Install the bind plug in the bind port extension.
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 remove the bind plug. Store the bind plug in a convenient place.

NOTICE: Remove the bind plug to prevent the system from entering bind mode the next time the power is turned on. If you encounter problems, obey binding instructions and refer to transmitter troubleshooting guide for other instructions. If needed, contact the appropriate Horizon Product Support office. For a list of compatible DSM transmitters, please visit www.bindnfly.com.

Throttle Hold

Throttle hold only turns off the motor on an electric helicopter. You must maintain pitch and direction control. The blades will spin if throttle hold is OFF. 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 if the helicopter is out of control, in danger of crashing, or both. Please refer to your transmitter manual for more information on programming throttle hold.

Control Tests

Test the controls prior to the first flight to ensure the servos, linkages and parts operate correctly. Turn on Throttle Hold when doing the control tests.

Elevator

Aileron
Motor Control Test

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

1. The motor beeps twice when the helicopter’s ESC arms properly. Before you continue, confirm that TH HOLD is ON.

**WARNING:** The motor will spin when throttle is increased while TH HOLD is OFF.

2. Check the swashplate directions to ensure they are moving in the correct direction. Please refer to the diagrams above for reference.

**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. Ensure the throttle is lowered completely. Turn throttle hold off at this time and confirm the transmitter is still set to normal flight mode. Slowly increase the throttle until the blades begin to spin. The main blades spin clockwise when viewing the helicopter from the top. The tail rotor blades spin counterclockwise when viewing the helicopter from the right-hand side.

**NOTICE:** If the main rotor blades are spinning counterclockwise, reduce the throttle to low immediately. Turn throttle hold on. Disconnect the battery from the helicopter and reverse any two motor wire connections to the ESC and repeat the motor control test.
Consult local laws and ordinances before choosing a location to fly your aircraft.

Select a large, open area away from people and objects. Your first flights should be outdoors in low-wind conditions. Always stay at least 30 feet (10 meters) away from the helicopter when it is flying.

The Blade 180 CFX is intended to be flown outdoors or inside a large gymnasium.

Takeoff
Deliberately increase throttle and establish a hover at least 24” (0.6 meter) high, outside of ground effect.

CAUTION: Do not give any aileron, elevator or rudder commands before takeoff or the helicopter may crash during takeoff.

Flying
The helicopter lifts off the ground when the rotor head reaches a suitable speed. Establish a low-level hover outside of ground effect to verify proper operation of your helicopter. You must not set any trim; the flybarless design of the Blade 180 CFX renders trim unnecessary. Setting trim or sub-trim can cause an unwanted drift or rotation of the helicopter.

First flights should be performed in normal mode and low cyclic and rudder dual rates until you are familiar with the flying manner of the Blade 180 CFX. Discover the rates that fit your flying style.

CAUTION: Always fly the helicopter with your back to the sun and the wind to prevent loss of flight control.

Landing
Establish a low level hover. Deliberately lower the throttle until the helicopter lands. Do not give any aileron, elevator or rudder commands when the helicopter is landing.

When the helicopter is in stunt mode:

- The rotor head speed is constant.
- The main rotor will increase negative pitch as the throttle/collective stick is moved from the middle stick position to the low stick position. Negative pitch allows the helicopter to fly upside down and perform aerobatics.

Change between stunt and idle up modes in a hover with the throttle near the hovering stick position.

The helicopter may go up or down when you change between modes due to the difference in the throttle and pitch curves.

If the cyclic control is too slow or too fast, adjust the transmitter dual rates, expo or throttle curve to fit your liking.

For advanced AS3X settings please go to Bladehelis.com and refer to the 180 CFX page.
Low Voltage Cutoff (LVC)

Once the battery reaches 9V under load, the ESC will continuously lower power supplied to the motor until complete shutdown occurs. This helps prevent over-discharge of the Li-Po battery. Land immediately once the ESC activates LVC. Continuing to fly after LVC can damage the battery, cause a crash or both. Crash damage and batteries damaged due to over-discharge are not covered under warranty.

Gyro Gain Adjustment

If the tail wags or oscillates, lower the gain on the gyro. On your transmitter’s gyro menu, decrease the gyro gain values a small amount until the helicopter is stable within a particular flight mode.

If the tail is drifting while hovering, increase the gain on the gyro. On your transmitter, increase the gyro gain values a small amount at a time until the tail starts to wag/oscillate. Afterwards, reduce the gain until the tail stops wagging/oscillating within a particular flight mode.

Post-Flight Inspections and Maintenance

<table>
<thead>
<tr>
<th>Ball Links</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleaning</td>
<td>Make sure the battery is not connected before cleaning. Remove dust and debris with a soft brush or a dry lint-free cloth.</td>
</tr>
<tr>
<td>Bearings</td>
<td>Replace bearings when they become notchy (sticky in places when turning) or draggy.</td>
</tr>
<tr>
<td>Wiring</td>
<td>Make sure the wiring does not contact moving parts. Replace damaged wiring and loose connectors.</td>
</tr>
<tr>
<td>Fasteners</td>
<td>Make sure there are no loose screws, other fasteners or connectors. Do not over tighten metal screws in plastic parts. Tighten screw so parts are mated together, then turn screw only 1/8th of a turn more.</td>
</tr>
<tr>
<td>Rotors</td>
<td>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.</td>
</tr>
<tr>
<td>Gyro</td>
<td>Make sure the receiver is securely attached to the frame. Replace the double-sided tape when necessary. The helicopter will crash if the receiver separates from the helicopter frame.</td>
</tr>
</tbody>
</table>
# Blade 180 CFX Troubleshooting Guide

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helicopter will not bind to the transmitter (during binding)</td>
<td>Low flight battery or transmitter battery voltage</td>
<td>Fully charge or replace the flight battery and/or transmitter batteries</td>
</tr>
<tr>
<td></td>
<td>The receiver is not in bind mode</td>
<td>Make sure the bind plug is connected to the receiver bind port extension</td>
</tr>
<tr>
<td></td>
<td>Transmitter is not in bind mode</td>
<td>Refer to your transmitter’s instruction manual for binding instructions</td>
</tr>
<tr>
<td></td>
<td>Transmitter too close to the helicopter during the binding process</td>
<td>Power off the transmitter. Move the transmitter to a larger distance from the helicopter. Disconnect and reconnect the flight battery to the helicopter and follow binding instructions</td>
</tr>
<tr>
<td>Helicopter will not link to the transmitter (after binding)</td>
<td>Helicopter is bound to a different model memory (ModelMatch™ radios only)</td>
<td>Disconnect the flight battery. Select the correct model memory on the transmitter. Reconnect the flight battery</td>
</tr>
<tr>
<td></td>
<td>Flight battery/Transmitter battery charge is too low</td>
<td>Replace or recharge batteries</td>
</tr>
<tr>
<td>The receiver will not initialize</td>
<td>The helicopter was moved during initialization</td>
<td>Lay the helicopter on its side during initialization if windy</td>
</tr>
<tr>
<td></td>
<td>The transmitter is powered off</td>
<td>Power on the transmitter</td>
</tr>
<tr>
<td></td>
<td>Controls are not centered</td>
<td>Center elevator, aileron and rudder controls. Make sure the throttle is at idle</td>
</tr>
<tr>
<td>Helicopter will not respond to the throttle but responds to other controls</td>
<td>Throttle not at idle and/or throttle trim is too high</td>
<td>Lower the throttle stick and throttle trim to the lowest settings</td>
</tr>
<tr>
<td></td>
<td>The transmitter is not in normal mode or throttle hold is on</td>
<td>Make sure the transmitter is in normal mode and throttle hold is off</td>
</tr>
<tr>
<td></td>
<td>The motor is not connected to the ESC or the motor wires are damaged</td>
<td>Connect the motor wires to the ESC and check motor wires for damage</td>
</tr>
<tr>
<td></td>
<td>Flight battery charge is too low</td>
<td>Replace or recharge flight battery</td>
</tr>
<tr>
<td></td>
<td>Throttle channel is reversed</td>
<td>Power down helicopter. Reverse the throttle channel on the transmitter</td>
</tr>
<tr>
<td>Helicopter power is lacking</td>
<td>Flight battery has low voltage</td>
<td>Fully charge the flight battery</td>
</tr>
<tr>
<td></td>
<td>Flight battery is old or damaged</td>
<td>Replace the flight battery</td>
</tr>
<tr>
<td></td>
<td>Flight battery cells are unbalanced</td>
<td>Fully charge the flight battery, allowing the charger time to balance the cells</td>
</tr>
<tr>
<td></td>
<td>Excessive current is being drawn through the BEC</td>
<td>Check all servos and the helicopter motor for damage</td>
</tr>
<tr>
<td>Helicopter will not lift off</td>
<td>Main rotor head is not spinning in the correct direction</td>
<td>Make sure the main rotor head is spinning clockwise. Refer to motor control test</td>
</tr>
<tr>
<td></td>
<td>Transmitter settings are not correct</td>
<td>Check throttle and pitch curve settings</td>
</tr>
<tr>
<td></td>
<td>Flight battery has low voltage</td>
<td>Fully charge the flight battery</td>
</tr>
<tr>
<td></td>
<td>Main rotor blades are installed backwards</td>
<td>Install the main rotor blades with the thicker side as the leading edge</td>
</tr>
<tr>
<td>The helicopter tail spins out of control</td>
<td>Rudder control and/or sensor direction reversed</td>
<td>Make sure the rudder control and the rudder sensor are operating in the correct direction</td>
</tr>
<tr>
<td></td>
<td>Tail servo is damaged</td>
<td>Check the rudder servo for damage and replace if necessary</td>
</tr>
<tr>
<td></td>
<td>Inadequate control arm throw</td>
<td>Check the rudder control arm for adequate travel and adjust if necessary</td>
</tr>
<tr>
<td>The helicopter wobbles in flight</td>
<td>Headspeed is too low</td>
<td>Increase the helicopter’s head speed via your transmitter settings and/or using a freshly charged flight pack</td>
</tr>
<tr>
<td></td>
<td>Dampers are worn</td>
<td>Replace the main rotor head dampers</td>
</tr>
</tbody>
</table>
# Replacement Parts

<table>
<thead>
<tr>
<th>#</th>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BLH3401</td>
<td>Main Blade Grips: 180 CFX</td>
</tr>
<tr>
<td>2</td>
<td>BLH3402</td>
<td>Main Blades: 180 CFX</td>
</tr>
<tr>
<td>3</td>
<td>BLH3403</td>
<td>Feathering Spindle Set: 180 CFX</td>
</tr>
<tr>
<td>4</td>
<td>BLH3404</td>
<td>Main Rotor Head Block: 180 CFX</td>
</tr>
<tr>
<td>5</td>
<td>BLH3405</td>
<td>Rotor Head Linkage Set: 180 CFX</td>
</tr>
<tr>
<td>6</td>
<td>BLH3406</td>
<td>Swashplate: 180 CFX</td>
</tr>
<tr>
<td>7</td>
<td>BLH3407</td>
<td>Main Shaft Set: 180 CFX</td>
</tr>
<tr>
<td>8</td>
<td>BLH3408</td>
<td>Main Gear: 180 CFX</td>
</tr>
<tr>
<td>9</td>
<td>BLH3409</td>
<td>Stock Canopy: 180 CFX</td>
</tr>
<tr>
<td>10</td>
<td>BLH3410</td>
<td>Servo Canopy: 180 CFX</td>
</tr>
<tr>
<td>11</td>
<td>BLH3411</td>
<td>Main Bearing Block Set: 180 CFX</td>
</tr>
<tr>
<td>12</td>
<td>BLH3412</td>
<td>Anti-Rotation Bracket: 180 CFX</td>
</tr>
<tr>
<td>13</td>
<td>BLH3413</td>
<td>Carbon Fiber Main Frame: 180 CFX</td>
</tr>
<tr>
<td>14</td>
<td>BLH3414</td>
<td>Body Post Set: 180 CFX</td>
</tr>
<tr>
<td>15</td>
<td>BLH3415</td>
<td>Battery Tray: 180 CFX</td>
</tr>
<tr>
<td>16</td>
<td>BLH3416</td>
<td>Motor Mount: 180 CFX</td>
</tr>
<tr>
<td>17</td>
<td>BLH3417</td>
<td>Brushless Motor: 180 CFX</td>
</tr>
<tr>
<td>18</td>
<td>BLH3418</td>
<td>Bottom Plate: 180 CFX</td>
</tr>
<tr>
<td>19</td>
<td>BLH3419</td>
<td>Landing Gear: 180 CFX</td>
</tr>
<tr>
<td>20</td>
<td>BLH3420</td>
<td>Front Tail Boom Case: 180 CFX</td>
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<td>21</td>
<td>BLH3421</td>
<td>Tail Pinion Gear/Shaft: 180 CFX</td>
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<tr>
<td>22</td>
<td>BLH3422</td>
<td>Bevel Gear: 180 CFX</td>
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<tr>
<td>23</td>
<td>BLH3423</td>
<td>Torque Tube Gear: 180 CFX</td>
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<tr>
<td>24</td>
<td>BLH3424</td>
<td>Tail Boom (2): 180 CFX</td>
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## Optional Parts

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
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<tbody>
<tr>
<td>BLH3401A</td>
<td>Aluminum Main Blade Grips: 180 CFX</td>
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<tr>
<td>BLH3402C</td>
<td>Carbon Fiber Main Blades: 180 CFX</td>
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<tr>
<td>BLH3404A</td>
<td>Aluminum Main Rotor Head Block: 180 CFX</td>
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<td>BLH3406A</td>
<td>Aluminum Swashplate: 180 CFX</td>
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<tr>
<td>BLH3409B</td>
<td>Fiberglass Canopy: 180 CFX</td>
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<td>BLH3431A</td>
<td>Aluminum Tail Canopy Set: 180 CFX</td>
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<tr>
<td>BLH3433A</td>
<td>Aluminum Tail Pitch Bellcrank: 180 CFX</td>
</tr>
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## 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.

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.

### Replacement Parts

<table>
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<th>Part #</th>
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<tr>
<td>25</td>
<td>BLH3425</td>
<td>Torque Tube (2): 180 CFX</td>
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<td>26</td>
<td>BLH3426</td>
<td>Boom Support Set: 180 CFX</td>
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<td>27</td>
<td>BLH3427</td>
<td>Tail Pushrod (2): 180 CFX</td>
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<td>BLH3428</td>
<td>Tail Pushrod Guide Set: 180 CFX</td>
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<td>BLH3429</td>
<td>Tail Boom Clamp: 180 CFX</td>
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<td>BLH3430</td>
<td>Vertical Fin: 180 CFX</td>
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<td>31</td>
<td>BLH3431</td>
<td>Tail Case Set: 180 CFX</td>
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<td>32</td>
<td>BLH3432</td>
<td>Tail Shaft and Hub: 180 CFX</td>
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<td>BLH3433</td>
<td>Tail Pitch Bellcrank: 180 CFX</td>
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<td>Tail Pitch Slider: 180 CFX</td>
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<td>Tail Grip Set: 180 CFX</td>
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<td>Tail Grip Bearing Set: 180 CFX</td>
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<td>Tail Blade Set: 180 CFX</td>
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<td>BLH3438</td>
<td>2.5x6x2.8mm Thrust Bearing: 180 CFX</td>
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<td>2.5x6x1.8mm Radial Bearing: 180 CFX</td>
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<td>5x8x2mm Radial Bearing: 180 CFX</td>
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<td>BLH3441</td>
<td>2.5x6x2.6mm Flanged Bearing: 180 CFX</td>
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<td>42</td>
<td>EFLB4503SJ30</td>
<td>450mAh 3S 11.1V 30C Li-Po Battery</td>
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<td>43</td>
<td>SPMSH2060</td>
<td>Nanolite High-Speed Heli Servo</td>
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<td>EFLRDS76TJ</td>
<td>7.6g Sub-Micro Digital Tail Servo JST</td>
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<td>45</td>
<td>SPMAR6335</td>
<td>AR6335 6-Channel AS3X Nanolite Receiver</td>
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<td>46</td>
<td>BLH3442</td>
<td>Castle Creations 15A Blade ESC</td>
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### Optional Parts

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<tr>
<td>DYNC2005</td>
<td>Prophet Sport Li-Po 35W AC Charger</td>
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<td>DX6i DSMX 6-Channel Transmitter Only</td>
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<td>DX6 DSMX 6-Channel Transmitter Only</td>
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<td>DX7s DSMX 7-Channel Transmitter Only</td>
<td>DX7s DSMX 7-Channel Transmitter Only</td>
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<td>DX8 DSMX 8-Channel Transmitter Only</td>
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<td>DX9 DSMX 9-Channel Transmitter Only</td>
<td>DX9 DSMX 9-Channel Transmitter Only</td>
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<tr>
<td>DX18 DSMX 18-Channel Transmitter Only</td>
<td>DX18 DSMX 18-Channel Transmitter Only</td>
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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.
Warranty and Service Contact Information

<table>
<thead>
<tr>
<th>Country of Purchase</th>
<th>Horizon Hobby</th>
<th>Contact Information</th>
<th>Address</th>
</tr>
</thead>
</table>
| 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) | www.quickbase.com/db/bghj7ey8c?a=GenNewRecord  
888-959-2304 | |
| | Sales | sales@horizonhobby.com  
888-959-2304 | |
| United Kingdom | Service/Parts/Sales:  
Horizon Hobby Limited | sales@horizonhobby.co.uk  
+44 (0) 1279 641 097 | Units 1–4, Playters 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 |
| China | Service/Parts/Sales:  
Horizon Hobby – China | info@horizonhobby.com.cn  
+86 (021) 5180 9868 | Room 506, No. 97 Changshou Rd.  
Shanghai, China 200060 |

Compliance Information for the European Union

Declaration of Conformity  
(in accordance with ISO/IEC 17050-1)  
No. HH20140902601  
Product(s): 180 CFX BNF Basic  
Item Number(s): BLH3450  
Equipment class: 1  
The object of declaration described above is in conformity with the requirements of the specifications listed below,  
EN301 489-1  
V1.9.2: 2012  
EN301 489-17  
V2.1.1: 2009  
EN55022:2010 + AC:2011  
EN55024:2010  
Signed for and on behalf of:  
Horizon Hobby, LLC  
Champaign, IL USA  
September 26, 2014  
Mike Dunne  
Executive Vice President  
Product Divisions  
Horizon Hobby, LLC

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.