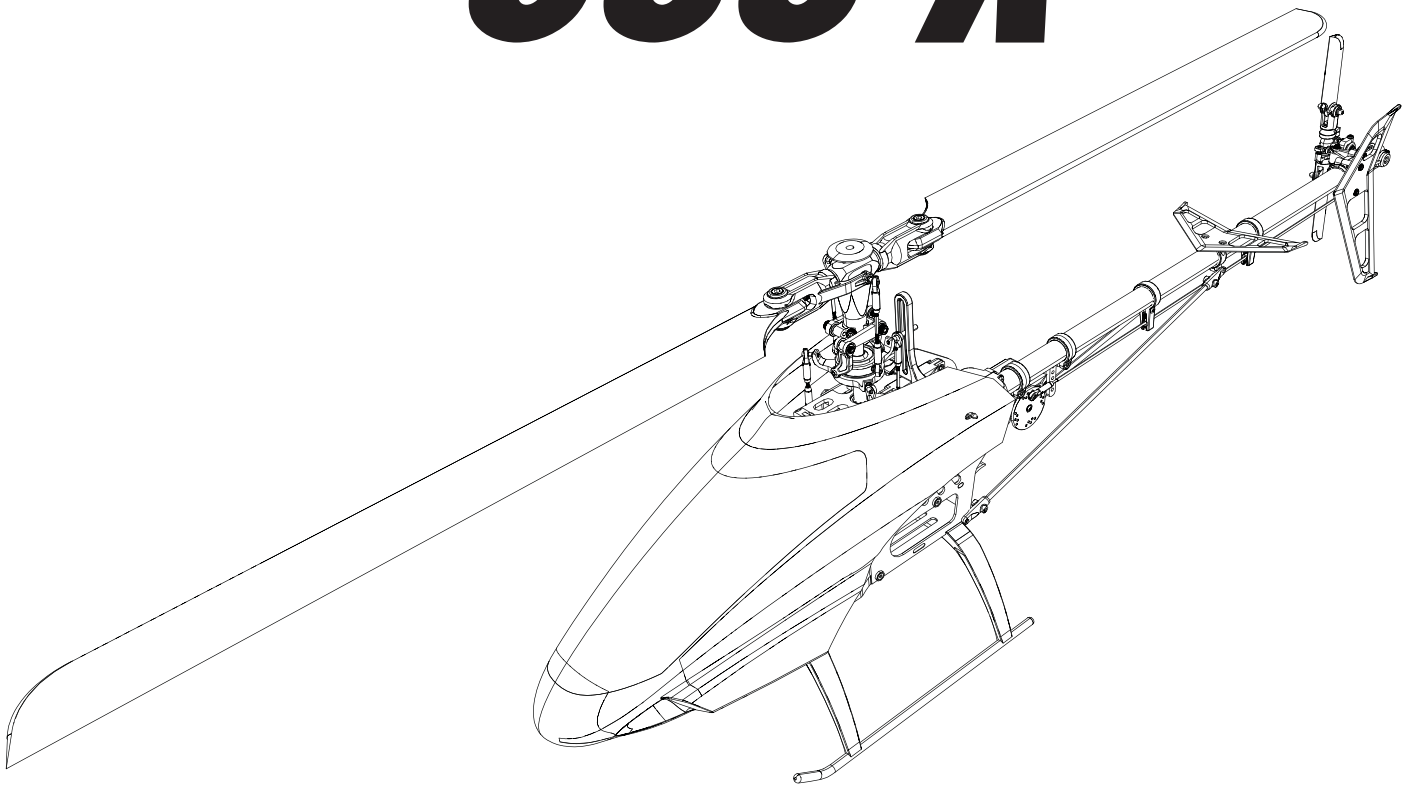




BLADE 500 X



**Instruction Manual
Bedienungsanleitung
Manuel d'utilisation
Manuale di Istruzioni**

SPEKTRUM™ DSMX® CONTROL • BEASTX™ FLYBARLESS TECHNOLOGY



NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, Inc. For up-to-date product literature, visit horizonhobby.com and click on the support tab for this product.

Meaning of Special Language

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product:

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

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, serious injury or death OR create a high probability of superficial injury.



Safety Alert: Indicates warning or caution. Attention is required in order to avoid serious personal 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 for advanced helicopter pilots with previous experience in the operation of CCPM helicopters (Cyclic Collective Pitch Mixing or Collective Pitch Helicopter) such as the Blade SR or the Blade mCP X. 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 attempt disassembly, use with incompatible components or augment product in any way without the approval of Horizon Hobby, Inc. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

Age Recommendation: For advanced fliers ages 14 and above. This is not a toy.



WARNING: Failure to follow all instructions can lead to damage to your helicopter, property damage and bodily injury or death.



CAUTION: Do not make changes or adjustments to the product not shown in the instruction manual.

General 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 ensure you fully understand the controls on your transmitter and how they affect the movement of the helicopter.
- Always operate your model in large, 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.
- Always keep children out of the vicinity of this product at all times. Always store this product well out of the reach of children.
- Always keep hair secured above your shoulders so it cannot get caught in the blades.
- Always maintain and operate this product in daylight.
- Always ensure all fasteners are secure before use.
- Always store product in a dry, secure location.
- Always ensure failsafe is properly set before flying.
- Do not touch the motor as it can become extremely hot during use.
- Do not fly this helicopter indoors.
- Do not exclusively rely on the safety mechanisms built into your transmitter and receiver. Always ensure you understand the product and how to operate it.
- Only use Horizon-approved replacement parts and accessories for this product.
- 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.
- Never connect the battery unless using or testing the product.
- Never operate this product if you are tired, not feeling well, taking any medications that impair judgment or are under the influence of alcohol or drugs.
- Never wear or have dangling and loose items on your person when maintaining or operating this product.
- Never spray glass cleaner or any other liquid on this product.
- Never operate this product in rain or inclement weather.
- Never perform maintenance with the battery installed in the helicopter.



WARNING: This is a large model helicopter with Blades that spin at very high RPM. Always use extreme caution and common sense when maintaining and operating this product. If you are unsure about ANY function or procedure described in this manual, DO NOT operate. Contact Horizon Product Support for assistance.



WARNING: Always ensure you are operating the helicopter a safe distance, 45 feet (13 meters), away from yourself and others.

BLADE 500 X BLH4080

WARNING: This helicopter is equipped with carbon fiber blades that spin at a very high RPM. Always follow all safety precautions found in this manual.

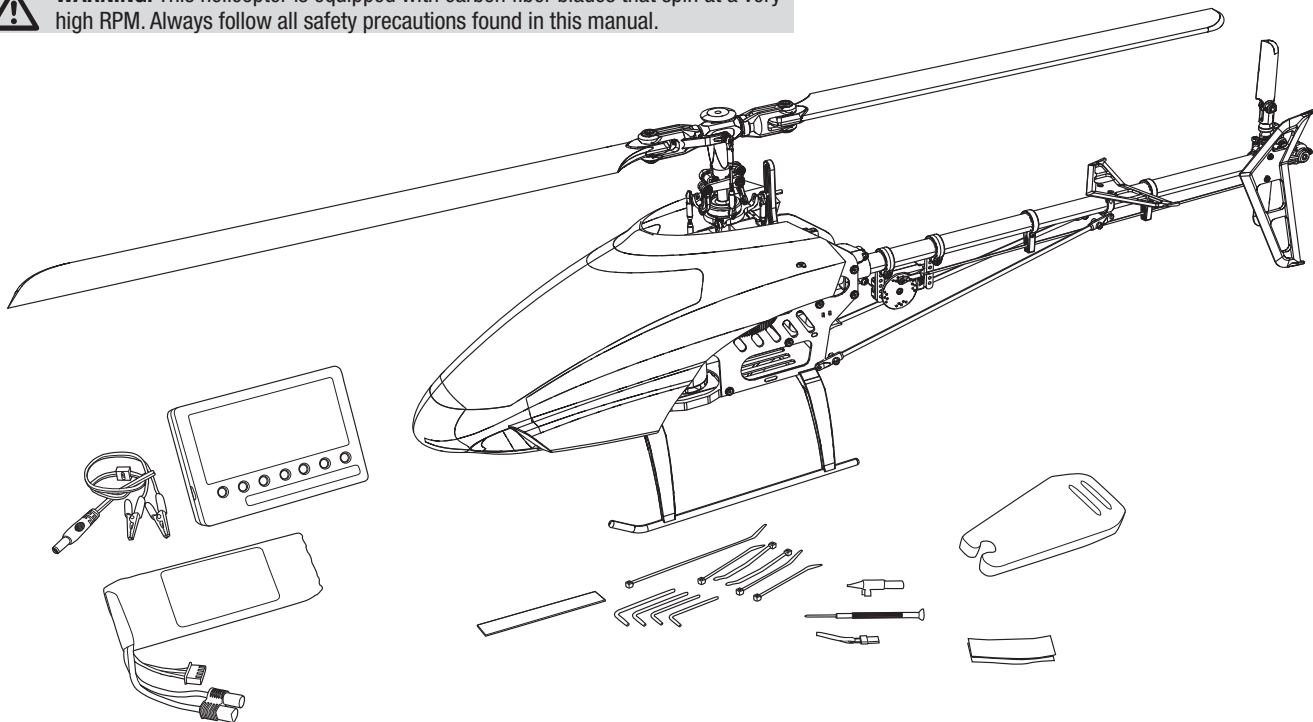


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Blade 500 X Specifications

Length	33.5 in (850mm)
Height	11.8 in (300mm)
Main Rotor Diameter	38.2 in (970mm)
Tail Rotor Diameter	7.8 in (198mm)
Flying Weight	3.88 lb (1760 g)

Components

Motor	520H Brushless outrunner, 1320Kv (installed)
ESC	70-amp brushless (installed)
Battery	6S 22.2V 2900mAh 30C Li-Po (included)
Charger	DC Li-Po Balancing Charger (included)
Flybarless Unit	Spektrum AR7200BX and remote receiver with BeastX™ technology (installed)
Swash Servos	Spektrum SH310 (installed)
Tail Servo	Spektrum SH410 (installed)

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

Charging the Flight Battery

The Blade® 500 X BNF comes with a Li-Po DC balancing charger and 6S Li-Po battery.

Use only Horizon Hobby approved battery packs and chargers compatible with this product.

Never leave the battery and charger unattended during the charge process. Failure to follow the instructions properly could result in a fire. When charging, ensure the battery is on a heat-resistant surface. Charge the flight battery before binding the helicopter and performing control tests.

DC Li-Po Balancing Charger Features

- Charges 6-cell lithium polymer battery packs
- 2.5A charge rate
- LED charge status indicator
- LED cell balance indicator
- 12V alligator clip input cord

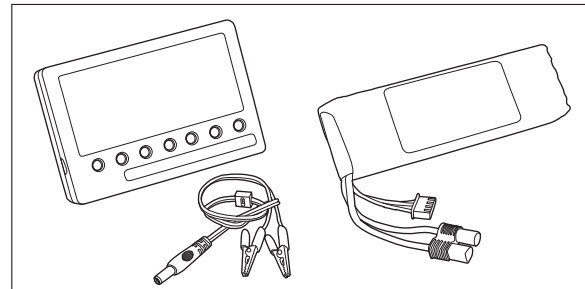
Specifications

- Input power: 10.6–15V DC, minimum 10.0 amp
- Charges 6-cell Li-Po packs with minimum capacity of 2500mAh

6S 22.2V 2900mAh Li-Po Battery Pack

The Blade 500 X 6S Li-Po battery pack features a balancing lead that allows you to safely charge your battery pack when used with the included Blade 500 Li-Po balancing charger. The included battery is safe to charge up to 3C (8.7A).

WARNING: The balance connector must be inserted into the correct port of your charger prior to charging!



The Battery Charging Process

1. Charge only batteries that are cool to the touch and are not damaged. Make sure the battery is not swollen, bent or punctured.
2. Connect the charger to a 12V power source (minimum 10A power supply), noting proper polarity.
3. The CHARGE STATUS LED glows solid red.
4. Connect the Li-Po battery balance lead to the charger. The balance connector is keyed to prevent reverse polarity.
5. The CELL STATUS LEDs glow solid green or yellow and the CHARGE STATUS LED glows solid red when the battery is charging.
6. Battery charging is complete when all LEDs glow solid red.
7. Disconnect the battery from the charger when the charging process is complete.

CAUTION: Only use a charger specifically designed to charge a Li-Po battery. Failure to do so could result in fire causing injury or property damage.

CAUTION: Never exceed the recommended charge rate.

Battery Charging Codes

Cell Status LEDs	Charge Status LED	Instruction
Off	Red Solid	Battery charger is powered. Li-Po battery is not connected.
Yellow	Red Solid	Li-Po battery is connected. Charger is balancing the battery pack cells
Green	Red Solid	Li-Po battery is connected and charging
Red	Red Solid	Li-Po battery is connected and charging is complete
Off	Blinking Red	No Li-Po battery connected: Voltage is outside the input voltage range Li-Po battery connected: At least one battery cell voltage is below 2.6V

Charging Warnings

CAUTION: You must follow all battery instructions and warnings in this manual. Mishandling of Li-Po batteries can result in a fire, personal injury, and/or property damage.

- By handling, charging or using the included Li-Po battery, you assume all risks associated with lithium batteries.
- If at any time the battery begins to balloon or swell, discontinue use immediately. If charging or discharging, discontinue and disconnect. Continuing to use, charge or discharge a battery that is ballooning or swelling can result in fire.
- Always store the battery at room temperature in a dry area for best results.
- Always transport or temporarily store the battery in a temperature range of 40–120° F (4–49° C). Do not store 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 and never charge damaged batteries.
- Only use a charger specifically designed to charge Li-Po batteries. Failure to charge the battery with a compatible charger may cause fire resulting in personal injury and/or property damage
- Always constantly monitor the temperature of the battery pack while charging.
- Always disconnect the battery after charging and let the charger cool between charges.
- Never discharge Li-Po cells to below 3V under load.
- Never cover warning labels with hook and loop strips.
- Never leave charging batteries unattended.
- Never charge batteries outside recommended levels.
- Only charge batteries that are cool to the touch.
- 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 40–120° F or 4–49° C) or place in direct sunlight.

Programming Your Transmitter

Program your transmitter before attempting to bind or fly the helicopter. Transmitter programming values are shown below for the Spektrum DX6i, DX7/DX7se, DX7s and DX8. The Spektrum model files for AirWare™ transmitters are also available for download on the Spektrum Community website.



CAUTION: When using a Futaba transmitter with a Spektrum DSM module, you must reverse the throttle channel and rebind. Refer to your Spektrum module manual for binding and failsafe instructions. Refer to your Futaba transmitter manual for instructions on reversing the throttle channel.

Spektrum DX6i Transmitter Setup

SETUP LIST

Model Type	Reverse	Swash Type	Timer
HELI	THRO—N	1 Servo 90 Degree	Type—Down
	AILE—N		Time—4:00
	ELEV—R		Switch—Trainer
	RUDD—R		
	GYRO—N		
	PITC—R		

ADJUST LIST

	D/R	Expo	TRAVEL ADJUST			SUB-TRIM*	
AILE 0	100%	INH	THRO	100%	THRO	0	
ELEV 0	100%	INH	AILE	100%	AILE	0*	
RUDD 0	100%	INH	ELEV	100%	ELEV	0*	
			RUDD	100%	RUDD	0*	
AILE 1	85%	INH	GYRO	100%	GYRO	0	
ELEV 1	85%	INH	PITC	100%	PITC	0	
RUDD 1	85%	INH					

GYRO

Rate	SW-F. Mode		
0	68.0%	NORM	0
1	67.0%	STUNT	1

THRO CUR

	L	2	3	4	H
NORM	0%	30%	60%	60%	60%
STUNT	100%	100%	100%	100%	100%
HOLD	10%	10%	10%	10%	10%

PITC CUR

	L	2	3	4	H
NORM	30%	40%	50%	75%	100%
STUNT	0%	25%	50%	75%	100%
HOLD	0%	25%	50%	75%	100%

SWASH MIX

INHIBIT

* Never use sub-trims or trims on AILE, ELEV or RUDD channels with the AR7200BX.

Spektrum DX7/DX7se Transmitter Setup

SYSTEM LIST

Model Type	Swash Type	Input Select	
HELI	1 Servo Norm	AUX2 INH	GEAR GYRO

ADJUST LIST

POS-0

AILE	ELEV	RUDD
EXP LIN	EXP LIN	EXP LIN
D/R 100%	D/R 100%	D/R 100%

POS-1

AILE	ELEV	RUDD	AUTO	D/R	EXP
EXP LIN	EXP LIN	EXP LIN		NORM	INH
D/R 85%	D/R 85%	D/R 85%		ST-1	INH
				ST-2	INH
				HOLD	INH

REVERSING SW

THRO	AILE	ELEV	RUDD	GEAR	PIT	AUX2
N	N	R	R	N	N	N

SUB-TRIM*

THRO	0
AILE	0*
ELEV	0*
RUDD	0*
GEAR	0
PITC	0
AUX2	0

TRAVEL ADJUST

THRO		AILE	
H 100%	L 100%		
L 100%	R 100%		
ELEV		RUDD	
D 100%	L 100%		
U 100%	R 100%		
GEAR		PIT	
+ 100%	H 100%		
- 100%	L 100%		

THRO HOLD

HOLD POS	0.0%
SW	RUDD D/R

THRO CURVE

	L	1	2	3	H
NORM	0%	30%	60%	60%	60%
ST-1	100%	100%	100%	100%	100%
ST-2	100%	100%	100%	100%	100%

PITCH CURVE

	L	1	2	3	H
NORM	30%	40%	50%	75%	100%
ST-1	0%	25%	50%	75%	100%
ST-2	0%	25%	50%	75%	100%
HOLD	0%	25%	50%	75%	100%

GYRO SENS

AUTO	F. MODE	
RATE	NORM	0
0	79.0%	STNT 1
1	71.0%	HOLD 0

TIMER

DOWN-T 4:00

SWASH MIX

INH

* Never use sub-trims or trims on AILE, ELEV or RUDD channels with the AR7200BX.

Spektrum DX7s Transmitter Setup

SYSTEM LIST

Model Type	Swash Type	Switch Select	F Mode Setup	Warnings	Frame Rate
Helicopter	1 Servo Normal	All Switches INH	Flight Mode — F Mode	Throttle —Over 10	11ms
			Hold — Hold	Stunt 1—Active	DSMX
				Hold—Active	
				Alarm—Tone/Vibe	

FUNCTION LIST

SERVO SETUP

TRAVEL			SUB TRIM*	REVERSE	
THROTTLE	100	100	THROTTLE 0	THROTTLE	N
AILERON	100	100	AILERON 0*	AILERON	N
ELEVATOR	100	100	ELEVATOR 0*	ELEVATOR	R
RUDDER	100	100	RUDDER 0*	RUDDER	R
GYRO	100	100	GYRO 0	GYRO	N
PITCH	100	100	PITCH 0	PITCH	N
AUX2	100	100	AUX2 0	AUX2	N

D/R AND EXPO

	POS	D/R	D/R	EXPO	SW
AILERON	0	100	100	0	AILE D/R
AILERON	1	85	85	0	AILE D/R
ELEVATOR	0	100	100	0	ELEV D/R
ELEVATOR	1	85	85	0	ELEV D/R
RUDDER	0	100	100	0	RUDD D/R
RUDDER	1	85	85	0	RUDD D/R

THROTTLE CUT

INHIBIT

GOVERNOR

SW-INHIBIT

THROTTLE CURVE

	LOW	25%	50%	75%	HIGH	EXPO
N	0	30	60	60	60	INH
1	100	100	100	100	100	INH
H	0	0	0	0	0	INH

PITCH CURVE

	LOW	25%	50%	75%	HIGH	EXPO
N	30	40	50	75	100	INH
1	0	25	50	75	100	INH
H	0	25	50	75	100	INH

GYRO

SW	F Mode
CH	Gear
NORMAL/POS 0	34.5
STUNT 1/POS 1	32.5
HOLD	34.5

TAIL CURVE

	LOW	25%	50%	75%	HIGH	EXPO
N	0	0	0	0	0	INH
1	0	0	0	0	0	INH
H	0	0	0	0	0	INH

TIMER

MODE	Countdown
TIME	4:00 Tone/Vibe
START	Throttle Out
POS	10

* Never use sub-trims or trims on AILE, ELEV or RUDD channels with the AR7200BX.

Spektrum DX8 Transmitter Setup

SYSTEM LIST

Model Type	Swash Type	Switch Select	F Mode Setup	Trim Step	Warnings	Frame Rate
Helicopter	1 Servo Normal	All Switches INH	Flight Mode — F Mode	THR 5	Throttle —Over 10	11ms
			Hold — Hold	AIL** 0	Stunt 1—Act	DSMX
				ELE** 0	Stunt 2—Act	
				RUD** 0	Hold—Act	
				R TRIM 0	Alarm—Tone/Vibe	
				L TRIM 0		
				TYPE Common		

**Changing trim step to zero disables the trim for that channel.

FUNCTION LIST

SERVO SETUP

TRAVEL			SUB TRIM*			REVERSE			SPEED
THROTTLE	100	100	THROTTLE	0	THROTTLE	N	THROTTLE	NORM	
AILERON	100	100	AILERON	0*	AILERON	N	AILERON	NORM	
ELEVATOR	100	100	ELEVATOR	0*	ELEVATOR	R	ELEVATOR	NORM	
RUDDER	100	100	RUDDER	0*	RUDDER	R	RUDDER	NORM	
GYRO	100	100	GYRO	0	GYRO	N	GYRO	NORM	
PITCH	100	100	PITCH	0	PITCH	N	PITCH	NORM	
AUX2	100	100	AUX2	0	AUX2	N	AUX2	NORM	
AUX3	100	100	AUX3	0	AUX3	N	AUX3	NORM	

THROTTLE CUT

INHIBIT

GOVERNOR

INHIBIT

D/R AND EXPO

	POS	D/R	D/R	EXPO	SW
AILERON	0	100	100	0	AILE D/R
AILERON	1,2	85	85	0	AILE D/R
ELEVATOR	0	100	100	0	ELEV D/R
ELEVATOR	1,2	85	85	0	ELEV D/R
RUDDER	0	100	100	0	RUDD D/R
RUDDER	1,2	85	85	0	RUDD D/R

THROTTLE CURVE

	LOW	25%	50%	75%	HIGH	EXPO
N	0	30	60	60	60	INH
1	100	100	100	100	100	INH
2	100	100	100	100	100	INH
H	0	0	0	0	0	INH

GYRO

SW	F Mode
CH	Gear
NORMAL/POS 0	34.5
STUNT 1/POS 1	32.5
STUNT 2/POS 2	32.5
HOLD	34.5

PITCH CURVE

	LOW	25%	50%	75%	HIGH	EXPO
N	30	40	50	75	100	INH
1	0	25	50	75	100	INH
2	0	25	50	75	100	INH
H	0	25	50	75	100	INH

TAIL CURVE

	LOW	25%	50%	75%	HIGH	EXPO
N	0	0	0	0	0	INH
1	0	0	0	0	0	INH
2	0	0	0	0	0	INH
H	0	0	0	0	0	INH

TIMER

MODE	Countdown
TIME	4:00 Tone/Vibe
START	Throttle Out
POS	25

SWASHPLATE

INHIBIT

* Never use sub-trims or trims on AILE, ELEV or RUDD channels with the AR7200BX.

Binding the Transmitter and Receiver

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 Spektrum™ DSM® transmitter to the flybarless unit before flying your helicopter. Please visit www.bindnfly.com to see a list of compatible DSM transmitters.

WARNING: You must move the throttle to the LOW/OFF position during binding. Failure to do so may cause the rotor blades to spin and the helicopter to lift during the AR7200BX initialization, which could result in damage to property and injury.

Binding Procedure

1. Program your transmitter using the Transmitter Setup values found in this manual.
2. Insert the bind plug in the BND/DAT port on the flybarless unit.
3. Connect the flight battery to the ESC. The H menu LED flashes, indicating the AR7200BX is in bind mode.
4. Move the throttle stick to the LOW/OFF position and move the flight mode switch to select Normal flight mode.
5. Put your transmitter in bind mode. The system connects within a few seconds. The H LED stops flashing and the AR7200BX starts the initialization process.
6. When the initialization process is complete, menu LED turns OFF and the Status LED light turns ON solid BLUE.
7. Disconnect the flight battery and remove the bind plug from the AR7200BX. 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, follow the binding instructions and see the AR7200BX instruction manual for more information. If needed, contact the appropriate Horizon Product Support office.

Throttle Hold

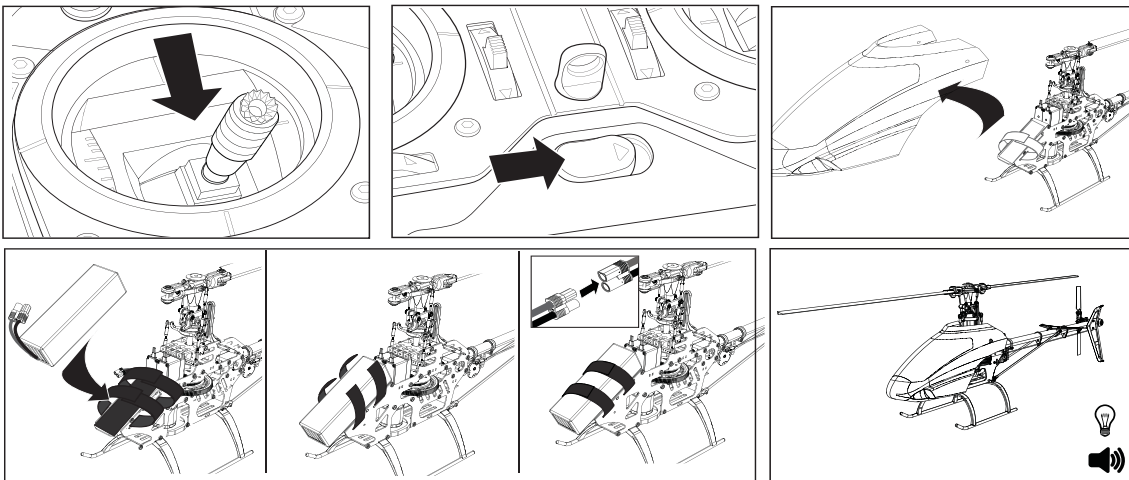
When you move the throttle hold switch to the ON position, the helicopter motor turns off. You will still have control of the helicopter cyclic and rudder commands.

The blades 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.

You should also turn throttle hold ON to minimize damage if the helicopter is out of control or in danger of crashing.

See your transmitter manual for more information on programming throttle hold.

Installing the Flight Battery



1. Lower the throttle.
2. Power on the transmitter.
3. Center the throttle trim.
4. Turn throttle hold ON.
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.
7. Connect the battery cable to the ESC.
8. Do not move the helicopter until the AR7200BX initializes. The swash-plate will move up and down, indicating that the unit is ready. The AR7200BX will also emit a solid BLUE Status LED when it is ready.
9. The helicopter motor will emit a series of tones, indicating the ESC is armed.

CAUTION: Always disconnect the Li-Po battery from the aircraft receiver when not in use to avoid over-discharging the battery. Batteries discharged to a voltage below the lowest manufacturer's approved voltage may become damaged, resulting in loss of performance and potential fire when batteries are charged.

Confirming Control Test Directions

Rudder and Cyclic Gyro Test

WARNING: Disconnect the motor from the ESC before performing Rudder and Cyclic Control Tests. Failure to disconnect the motor from the ESC may cause the rotor blades to spin.

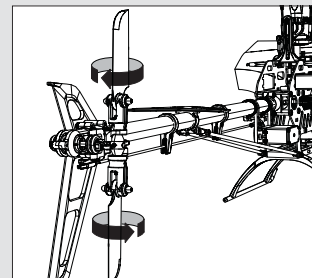
Rudder Gyro Test

1. Power on the transmitter.
2. Turn throttle hold ON and move the flight mode switch to select Normal flight mode.
3. Connect the Li-Po battery to the ESC.

NOTICE: Do not allow the helicopter to move until the Status LED is solid blue and all menu LEDs are OFF. The gyro will not operate correctly if the helicopter moves before the Status LED is solid blue.

4. Move the rudder stick to the right. The tail rotor blades move as shown. If they do not move as shown, reverse the rudder channel in your transmitter.

5. Release the rudder control.
6. Manually turn the helicopter nose to the left. The tail rotor blades automatically move as shown. If they do not move as shown, reverse the AR7200BX tail sensor direction (Setup menu point F). See the AR7200BX instruction manual for more information.



Cyclic Gyro Test

When using a flybarless system, you are controlling rotational rates while the AR7200BX controls the servos. You are not directly controlling the servos with the transmitter.

It is normal for the swashplate to slowly move back to its original position after a stick input and for the servos to not move at the same speed as your control sticks.

1. Tilt the helicopter forward. The swashplate should tilt backward.

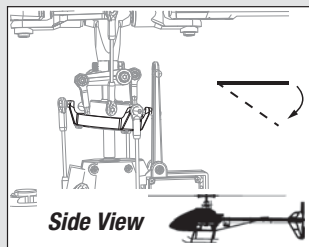
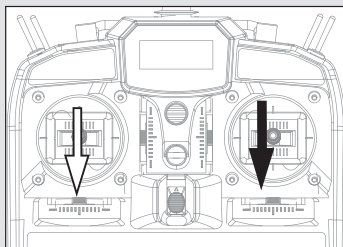
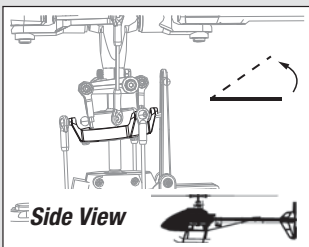
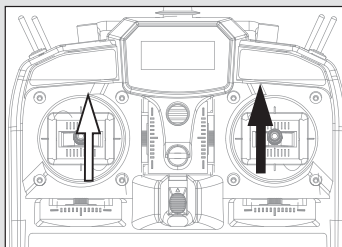
2. Tilt the helicopter backward. The swashplate should tilt forward.
3. Roll the helicopter left. The swashplate should roll right.
4. Roll the helicopter right. The swashplate should roll left.
5. If the swashplate does not move in the correct direction, you will need to reverse the cyclic sensor direction. Refer to the AR7200BX manual for more information (Setup menu point M).
6. Disconnect the flight battery from the ESC.
7. Power the transmitter OFF.
8. Connect the motor wires to the ESC.

CAUTION: You must complete the Rudder and Cyclic tests prior to flight. Failure to confirm the sensor directions are correct can cause the helicopter to crash, resulting in property damage and/or injury.

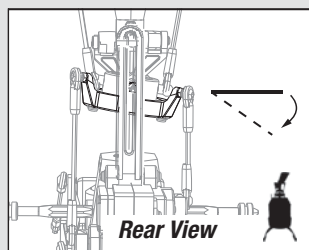
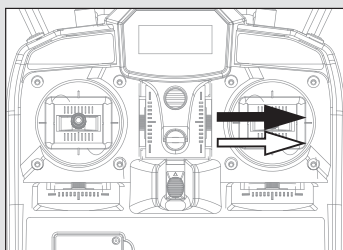
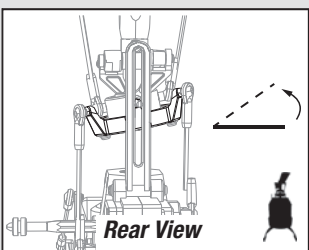
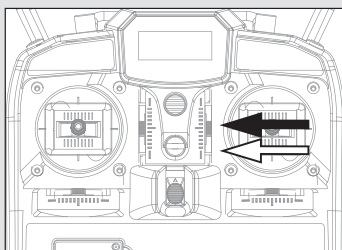
Cyclic and Collective Control Test

Turn ON Throttle Hold and Normal flight mode when performing the control tests.

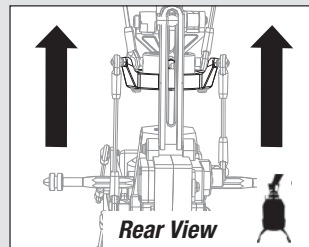
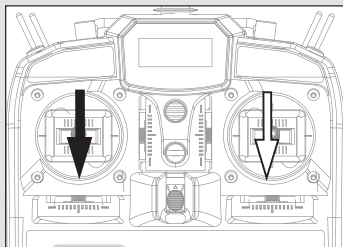
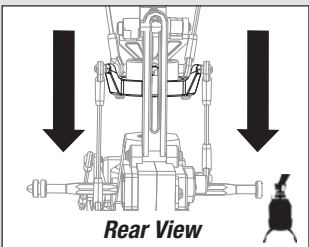
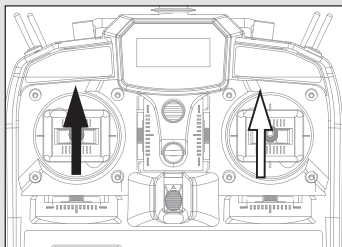
Elevator



Aileron



Collective Pitch




MODE 2 ↑ MODE 1 ↑


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 Power on the transmitter. Make sure throttle hold is ON and the flight mode switch is in the normal position.

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

2. Lower the throttle completely.

 **WARNING:** Stay at least 45 feet (13 meters) away from the helicopter when the motor is running. Do not attempt to fly the helicopter at this time.

3. Connect the Li-Po battery to the ESC.
4. Turn throttle hold OFF. 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, make sure you are in normal mode and reduce the throttle to low immediately. Turn TH HOLD ON. Disconnect the battery from the helicopter and reverse any two motor wire connections to the ESC and repeat the motor control test.

Low Voltage Cutoff (LVC)

Low voltage cutoff (LVC) protects the Li-Po battery from overdischarge in flight and activates when the battery reaches 3V per cell under load.

Set your transmitter timer for 4 minutes and land when the timer expires.

Repeatedly activating LVC damages the flight battery and you will need to replace the battery.

Crash damage and battery damage are not covered under warranty.


Flight Guidelines and Warnings

- Always keep aircraft in sight and under control.
- Always keep people and pets at least 45 feet (13 meters) away when the battery is connected.
- Keep children out of the vicinity of this product at all times.
- Always turn on throttle hold 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.
- Always have a first aid kit with you.
- Always have an appropriate fire extinguisher with you.
- Never operate aircraft with damaged wiring.
- Never touch moving parts.

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 45 feet (13 meters) away from the helicopter when it is flying.

Do not attempt to fly the Blade 500 X indoors.

 **CAUTION:** The Blade 500 X is intended for pilots with experience flying aerobatic, collective pitch helicopters. The Blade 500 X is more responsive than other Blade helicopters. If you are not an experienced 3D or collective pitch helicopter pilot, do not attempt to fly this product.

Takeoff

Deliberately increase throttle and establish a hover at least 36" (1 meter) high, outside of ground effect.

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

Flying

The helicopter lifts off the ground when the rotor head reaches a suitable speed. Establish a low-level hover to verify proper operation of your helicopter. You must not set any trim; the flybarless design of the Blade 500 X 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 with low cyclic and rudder dual rates until you are familiar with the flying manner of the Blade 500 X. Discover the rates that fit your flying style.

 **CAUTION:** Always fly the helicopter with your back to the sun and 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.

 **WARNING:** Only use Blade 500 X approved carbon fiber main blades. Do not use wooden main blades with the Blade 500 X. Using wooden main blades may cause injury or property damage.

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

Blade Tracking

 **WARNING:** Always maintain a safe distance of at least 15 meters (45 feet) when checking the main rotor blade tracking.

To check the blade tracking:

1. Put the helicopter in a hover at an altitude near eye height.

2. Watch the movement at the blade tips. Both blades should travel in the same plane.
3. If one blade tip appears to be higher than the other, land the helicopter, disconnect the flight battery and adjust the blade linkages.
4. Repeat Steps 1 through 3 until both blades are moving in the same plane.

Adjusting the Rudder Gyro Gain

- 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 at a time 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.

Adjusting the Drive Belt Tension

Belt tension that is too tight results in loss of power and causes the belt to wear more quickly. Tension that is too loose can cause belt damage and loss of tail rotor control in flight.

To check for proper belt tension:

1. View the tail rotor drive belt through the opening at the top of the tail case.
2. Use a hex wrench or standard screwdriver to compress the belt through the opening.
3. Apply light pressure on the belt, compressing the belt toward the bottom of the tail boom.
4. The belt tension is correct if the compressed side of the belt reaches approximately halfway to the opposite side of the belt.
 - a. *If the compressed side of the belt reaches farther than halfway to the other side of the belt, the tension is too loose.*
 - b. *If the compressed side of the belt does not reach halfway to the other side of the belt, the tension is too tight.*


To adjust the belt tension:

1. Loosen the two horizontal stabilizer screws.
2. Loosen the six screws at the back of the main frame.
3. Slide the boom forward or aft to adjust the belt tension.
4. When the belt tension is properly adjusted, tighten the six screws at the back of the frame.
5. Tighten the horizontal stabilizer screws.


Post-Flight Inspections and Maintenance

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 wiring does not block 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 screw so parts are mated together, then turn 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.
Gyro	Make sure the AR7200BX is securely attached to the frame. Replace the double-sided tape when necessary. The helicopter will crash if the AR7200BX separates from the helicopter frame.

SETUP MENU *Menu LED solid*

 Status-LED:		OFF	Purple	Red Flashing	Red Solid	Blue Flashing	Blue Solid
A	Mounting orientation				upright (vertical)	flat (horizontal)*	
B	Swashplate servo - frequency	User defined	50 Hz	65 Hz	120 Hz	165 Hz	200 Hz*
C	Tail servo - center position pulse length	User defined	960 µs		760 µs		1520 µs*
D	Tail servo - frequency	User defined	50 Hz	165 Hz	270* Hz	333 Hz	560 Hz
E	Tail servo - rotor endpoints	Tail stick - move to right endpoint and wait/left endpoint and wait					
F	Tail - sensor direction				normal		reversed*
G	Swashplate - servo centering	Reference position	ELE center pos.		AIL center pos.		PIT center pos.
H	Swashplate - mixer	User defined	mechanical	90°	120°*	140°	140° (1=1)
I	Swashplate - servo directions	nor rev rev	nor nor rev*		nor rev nor		nor nor nor
J	Swashplate - cyclic pitch geometry	Aileron stick – adjust 6° cyclic pitch on the roll axis (blades aligned with fuselage)					
K	Collective pitch range	Collective stick on max and min position and use tail stick to adjust desired pitch. Stock settings provide +/- 14 degrees of collective pitch.					
L	Swashplate - cyclic limit	Move aileron, elevator and pitch sticks – adjust max limits with tail stick					
M	Swashplate - sensor directions	rev rev	rev nor		nor rev		nor nor*
N	Pirouette optimization direction				normal		reversed*

PARAMETER MENU *Menu LED is flashing quickly*

 Status-LED:		OFF	Purple	Red Flashing	Red Solid	Blue Flashing	Blue Solid
A	Swashplate - cyclic center adjustment	Aileron and elevator stick – reset with tail stick					
B	Control behavior	User defined	normal	sport	pro	extreme	transmitter*
C	Swashplate - pitching up behavior	User defined	very low	low	medium*	high	very high
D	Tail - HeadingLock gain	User defined	very low	low	medium*	high	very high
E	Stick deadband	User defined	1	2*	3	4	5
F	Tail - torque precompensation IX)	User defined	off*	low - nor	high - nor	low - rev	high - rev
G	Cyclic response	User defined	normal	slightly increased*	increased	high	very high
H	Pitch boost	User defined	off*	low	medium	high	very high

*The AR7200BX included with your Blade 500 X helicopter is pre-programmed with these default settings. If you perform a factory reset on the included AR7200BX will default back to these default Blade 500 X helicopter settings.

To perform a Blade 500 X AR7200BX factory reset, enter any Setup menu and press the setup button for 10 seconds. After performing the factory reset, you will need to re-center the swashplate servos by using setup menu G.

If you update the firmware on the AR7200BX to non-Blade 500 X firmware, all Blade 500 X helicopter default settings will be deleted. You will need to complete the entire AR7200BX setup process before flying the helicopter again. Please refer to the Spektrum AR7200BX instruction manual.

AR7200BX Parameter Menu Tips

Refer to the Spektrum AR7200BX manual to fine tune the Blade 500 X to your flying and control style via the AR7200BX parameter menu.

If you would like to change the control behavior of the flybarless system to a pre-defined behavior in the AR7200BX, adjust parameter B (default behavior is transmitter).

If you would like to have the cyclic behavior to feel more linear OR more like a flybarred helicopter, increase the cyclic response by adjusting parameter G (default is 'slightly increased').

Refer to the Spektrum AR7200BX manual for specific details on each parameter.

AR7200BX Fine-tuning and Adjustment

Observed Behavior	Suggested Adjustment
Cyclic response is too slow or too fast	Adjust end points to fit your flying style. Refer to your transmitter instruction manual for more information
	Adjust the control behavior parameter in the AR7200BX to fit your flying style.
Control inputs feel delayed	Increase Dial 2 on the AR7200BX
The helicopter seems to overshoot control input and then return	Decrease Dial 2 on the AR7200BX
The helicopter tail stops too abruptly	Decrease Dial 3 on the AR7200BX
The helicopter tail does not stop precisely	Make sure the tail drive belt tension is adjusted correctly
	Increase the rudder gain in your transmitter
	Increase Dial 3 on the AR7200BX
	Adjust the rudder heading lock gain parameter in the AR7200BX

Blade 500 X Troubleshooting Guide

Problem	Possible Cause	Solution
Helicopter will not bind to the transmitter (during binding)	Low flight battery or transmitter battery voltage	Fully charge or replace the flight battery and/or transmitter batteries
	AR7200BX is not in bind mode	Make sure the bind plug is connected to the AR7200BX BND/DAT port
	Transmitter is not in bind mode	Refer to your transmitter's instruction manual for binding instructions
	Transmitter too close to the helicopter during binding process	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.
Helicopter will not link to the transmitter (after binding)	Helicopter is bound to a different model memory (ModelMatch radios only)	Disconnect the flight battery. Select the correct model memory on the transmitter. Reconnect the flight battery
	Flight battery/Transmitter battery charge is too low	Replace or recharge batteries
AR7200BX will not initialize	The helicopter was moved during initialization	Lay the helicopter on its side during initialization if windy
	The transmitter is powered off	Power on the transmitter
	Controls are not centered	Center elevator, aileron and rudder controls. Make sure the throttle is at idle
Helicopter will not respond to the throttle but responds to other controls	Throttle not at idle and/or throttle trim is too high	Lower the throttle stick and lower the throttle trim
	The transmitter is not in normal mode or throttle hold is on	Make sure the transmitter is in normal mode and throttle hold is off
	The motor is not connected to the ESC or the motor wires are damaged	Connect the motor wires to the ESC and check motor wires for damage
	Flight battery charge is too low	Replace or recharge flight battery
	Throttle channel is reversed	Reverse the throttle channel on the transmitter
Helicopter power is lacking	Flight battery has low voltage	Fully charge the flight battery
	Flight battery is old or damaged	Replace the flight battery
	Flight battery cells are unbalanced	Fully charge the flight battery, allowing the charger time to balance the cells
	Excessive current is being drawn through the BEC	Check all servos and the helicopter motor for damage
	Tail drive belt tension is not correct.	See "Checking Tail Drive Belt Tension" in this manual

Blade 500 X Troubleshooting Guide, continued

Problem	Possible Cause	Solution
Helicopter will not lift off	Main rotor head is not spinning in the correct direction	Make sure the main rotor head is spinning clockwise. Refer to the motor control test
	Transmitter settings are not correct	Check throttle and pitch curve settings and pitch control direction
	Flight battery has low voltage	Fully charge the flight battery
	Main rotor blades are installed backwards	Install the main rotor blades with the thicker side as the leading edge
Flight battery will not charge	Input voltage to the charger is too low	Input voltage must be between 10.6–15V DC with a minimum 10A current
	The battery balance tab is damaged	Make sure the balance tab wires are fully seated in the balance plug
	The flight battery is overdischarged	If any cell voltage drops below 3V, the battery is damaged and must be replaced.
The helicopter tail spins out of control	Rudder control and/or sensor direction reversed	Make sure the rudder control and the rudder sensor are operating in the correct direction
	Tail servo is damaged	Check the rudder servo for damage and replace if necessary
	Inadequate control arm throw	Check the rudder control arm for adequate travel and adjust if necessary
	Tail belt is too loose	Make sure the tail drive belt tension is adjusted correctly
The helicopter wobbles in flight	Cyclic gain is too high	Decrease Dial 1 on the AR7200BX
	Head speed is too low	Increase the helicopter's head speed via your transmitter settings and/or using a freshly charged flight pack
	Dampers are worn	Replace the main rotor head dampers

Limited Warranty

What this Warranty Covers

Horizon Hobby, Inc., (Horizon) warrants to the original purchaser that the product purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase.

What is Not Covered

This warranty is not transferable and does not cover (i) cosmetic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (iii) modification of or to any part of the Product, (iv) attempted service by anyone other than a Horizon Hobby authorized service center, (v) Product not purchased from an authorized Horizon dealer, or (vi) Product not compliant with applicable technical regulations.

OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARRANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

Purchaser's Remedy

Horizon's sole obligation and purchaser's sole and exclusive remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any Product determined by Horizon to be defective. Horizon reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Horizon. Proof of purchase is required for all warranty claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.

Limitation of Liability

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability. If you as the purchaser or user are not prepared to accept the liability associated with the use of the Product, purchaser is advised to return the Product immediately in new and unused condition to the place of purchase.

Law

These terms are governed by Illinois law (without regard to conflict of law principals). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Horizon reserves the right to change or modify this warranty at any time without notice.

WARRANTY SERVICES

Questions, Assistance, and 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 877.504.0233 toll free to speak to a Product Support representative.

Inspection or Services

If this Product needs to be inspected or serviced and is compliant in the country you live and use the Product in, please use the Horizon Online Service Request submission process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) number. Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. An Online Service Request is available at Horizon Hobby Service Center. If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with instructions for submitting your product for service. When calling Horizon, you will be asked to provide your complete name, street address, email address and phone number where you can be reached during business hours. When sending product into Horizon, please include your RMA number, a list of the included items, and a brief summary of the problem. A copy of your original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

Notice: Do not ship LiPo batteries to Horizon. If you have any issue with a LiPo battery, please contact the appropriate Horizon Product Support office.

Warranty Requirements

For Warranty consideration, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be serviced or replaced free of charge. Service or replacement decisions are at the sole discretion of Horizon.

Non-Warranty Service

Should your service not be covered by warranty service will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for service you are agreeing to payment of the service without notification. Service estimates are available upon request. You must include this request with your item submitted for service. Non-warranty service estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashier's checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for service, you are agreeing to Horizon's Terms and Conditions found on our website Horizon Hobby Service Center.

NOTICE: Horizon service is limited to Product compliant in the country of use and ownership. If non-compliant product is received by Horizon for service, it will be returned unserviced at the sole expense of the purchaser.

Warranty and Service Contact Information

Country of Purchase	Horizon Hobby	Address	Phone Number / Email Address
United States of America	Horizon Service Center (Electronics and engines)	4105 Fieldstone Rd Champaign, Illinois, 61822 USA	877-504-0233 Online Repair Request visit: www.horizonhobby.com/service
	Horizon Product Support (All other products)	4105 Fieldstone Rd Champaign, Illinois, 61822 USA	877-504-0233 productsupport@horizonhobby.com
United Kingdom	Horizon Hobby Limited	Units 1-4 Ployters Rd Staple Tye Harlow, Essex, CM18 7NS, United Kingdom	+44 (0) 1279 641 097 sales@horizonhobby.co.uk
Germany	Horizon Technischer Service	Christian-Junge-Straße 1 25337 Elmshorn, Germany	+49 (0) 4121 2655 100 service@horizonhobby.de
France	Horizon Hobby SAS	14 Rue Gustave Eiffel Zone d'Activité du Réveil Matin 91230 Montgeron	+33 (0) 1 60 47 44 70 infofrance@horizonhobby.com
China	Horizon Hobby – China	Room 506, No. 97 Changshou Rd. Shanghai, China 200060	+86 (021) 5180 9868 info@horizonhobby.com.cn

Customer Service Information

Country of Purchase	Horizon Hobby	Address	Phone Number / Email Address
United States	Sales	4105 Fieldstone Rd Champaign, Illinois, 61822 USA	(800) 338-4639 sales@horizonhobby.com
United Kingdom	Horizon Hobby Limited	Units 1-4 Ployters Rd Staple Tye Harlow, Essex, CM18 7NS, United Kingdom	+44 (0) 1279 641 097 sales@horizonhobby.co.uk
Germany	Horizon Hobby GmbH	Christian-Junge-Straße 1 25337 Elmshorn, Germany	+49 (0) 4121 2655 100 service@horizonhobby.de
France	Horizon Hobby SAS	14 Rue Gustave Eiffel Zone d'Activité du Réveil Matin 91230 Montgeron	+33 (0) 1 60 47 44 70 infofrance@horizonhobby.com
China	Horizon Hobby – China	Room 506, No. 97 Changshou Rd. Shanghai, China 200060	+86 (021) 5180 9868 info@horizonhobby.com.cn

AMA National Model Aircraft Safety Code

Effective January 1, 2011

A. GENERAL: A model aircraft is a non-human-carrying aircraft capable of sustained flight in the atmosphere. It may not exceed limitations of this code and is intended exclusively for sport, recreation and/or competition. All model flights must be conducted in accordance with this safety code and any additional rules specific to the flying site.

1. Model aircraft will not be flown:

- (a) In a careless or reckless manner.
- (b) At a location where model aircraft activities are prohibited.

2. Model aircraft pilots will:

- (a) Yield the right of way to all man carrying aircraft.
- (b) See and avoid all aircraft and a spotter must be used when appropriate. (AMA Document #540-D-See and Avoid Guidance.)
- (c) Not fly higher than approximately 400 feet above ground level within three (3) miles of an airport, without notifying the airport operator.
- (d) Not interfere with operations and traffic patterns at any airport, heliport or seaplane base except where there is a mixed use agreement.
- (e) Not exceed a takeoff weight, including fuel, of 55 pounds unless in compliance with the AMA Large Model Aircraft program. (AMA Document 520-A)
- (f) Ensure the aircraft is identified with the name and address or AMA number of the owner on the inside or affixed to the outside of the model aircraft. (This does not apply to model aircraft flown indoors).

- (g) Not operate aircraft with metal-blade propellers or with gaseous boosts except for helicopters operated under the provisions of AMA Document #555.
- (h) Not operate model aircraft while under the influence of alcohol or while using any drug which could adversely affect the pilot's ability to safely control the model.
- (i) Not operate model aircraft carrying pyrotechnic devices which explode or burn, or any device which propels a projectile or drops any object that creates a hazard to persons or property.
 - Exceptions:
 - Free Flight fuses or devices that burn producing smoke and are securely attached to the model aircraft during flight.
 - Rocket motors (using solid propellant) up to a G-series size may be used provided they remain attached to the model during flight. Model rockets may be flown in accordance with the National Model Rocketry Safety Code but may not be launched from model aircraft.
 - Officially designated AMA Air Show Teams (AST) are authorized to use devices and practices as defined within the Team AMA Program Document (AMA Document #718).
- (j) Not operate a turbine-powered aircraft, unless in compliance with the AMA turbine regulations. (AMA Document #510-A).

AMA National Model Aircraft Safety Code, continued

3. Model aircraft will not be flown in AMA sanctioned events, air shows or model demonstrations unless:

- (a) The aircraft, control system and pilot skills have successfully demonstrated all maneuvers intended or anticipated prior to the specific event.
- (b) An inexperienced pilot is assisted by an experienced pilot.

4. When and where required by rule, helmets must be properly worn and fastened. They must be OSHA, DOT, ANSI, SNELL or NOCSAE approved or comply with comparable standards.

B. RADIO CONTROL (RC)

1. All pilots shall avoid flying directly over unprotected people, vessels, vehicles or structures and shall avoid endangerment of life and property of others.

2. A successful radio equipment ground-range check in accordance with manufacturer's recommendations will be completed before the first flight of a new or repaired model aircraft.

3. At all flying sites a safety line(s) must be established in front of which all flying takes place (AMA Document #706-Recommended Field Layout):

- (a) Only personnel associated with flying the model aircraft are allowed at or in front of the safety line.
- (b) At air shows or demonstrations, a straight safety line must be established.
- (c) An area away from the safety line must be maintained for spectators.
- (d) Intentional flying behind the safety line is prohibited.

4. RC model aircraft must use the radio-control frequencies currently allowed by the Federal Communications Commission (FCC). Only individuals properly licensed by the FCC are authorized to operate equipment on Amateur Band frequencies.

5. RC model aircraft will not operate within three (3) miles of any pre-existing flying site without a frequency-management agreement (AMA Documents #922-Testing for RF Interference; #923- Frequency Management Agreement)

6. With the exception of events flown under official AMA Competition Regulations, excluding takeoff and landing, no powered model may be flown outdoors closer than 25 feet to any individual, except for the pilot and the pilot's helper(s) located at the flight line.

7. Under no circumstances may a pilot or other person touch a model aircraft in flight while it is still under power, except to divert it from striking an individual. This does not apply to model aircraft flown indoors.

8. RC night flying requires a lighting system providing the pilot with a clear view of the model's attitude and orientation at all times.

9. The pilot of a RC model aircraft shall:

- (a) Maintain control during the entire flight, maintaining visual contact without enhancement other than by corrective lenses prescribed for the pilot.
- (b) Fly using the assistance of a camera or First-Person View (FPV) only in accordance with the procedures outlined in AMA Document #550.

Please see your local or regional modeling association's guidelines for proper, safe operation of your model aircraft.

Compliance Information for the European Union

Declaration of Conformity

(in accordance with ISO/IEC 17050-1)

No. HH2012041903



Product(s): Blade 500 X BNF
Item Number(s): BLH4080
Equipment class: 1

The object of declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the European R&TTE directive 1999/5/EC, EMC Directive 2004/108/EC and LVD Directive 2006/95/EC:

EN 301 489-1 V1.7.1: 2006

EN 301 489-17 V1.3.2: 2008

EN 60950-1:2006+A11

EN55022: 2010

EN55024: 2010

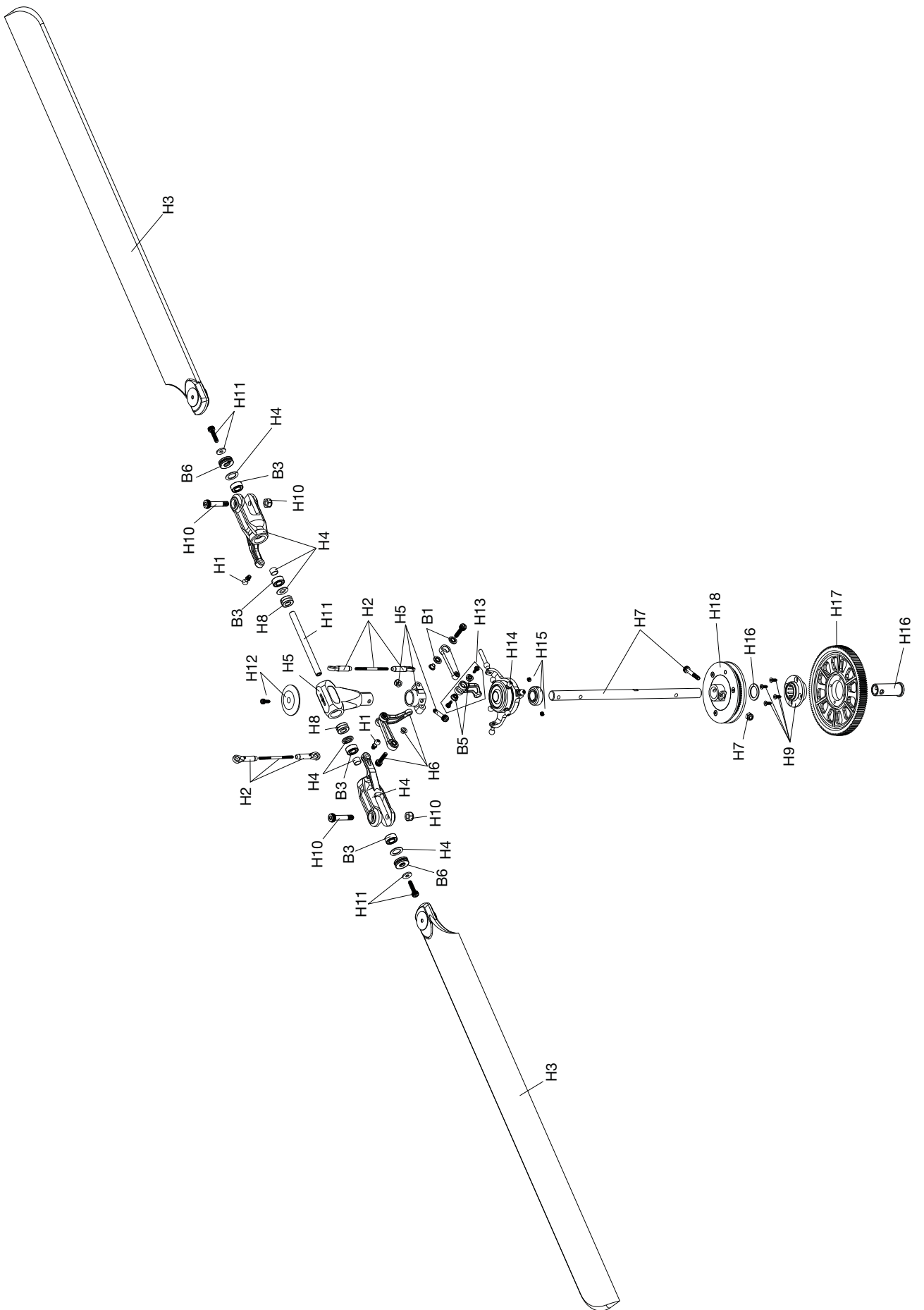
Signed for and on behalf of:
Horizon Hobby, Inc.
Champaign, IL USA
April 19, 2012

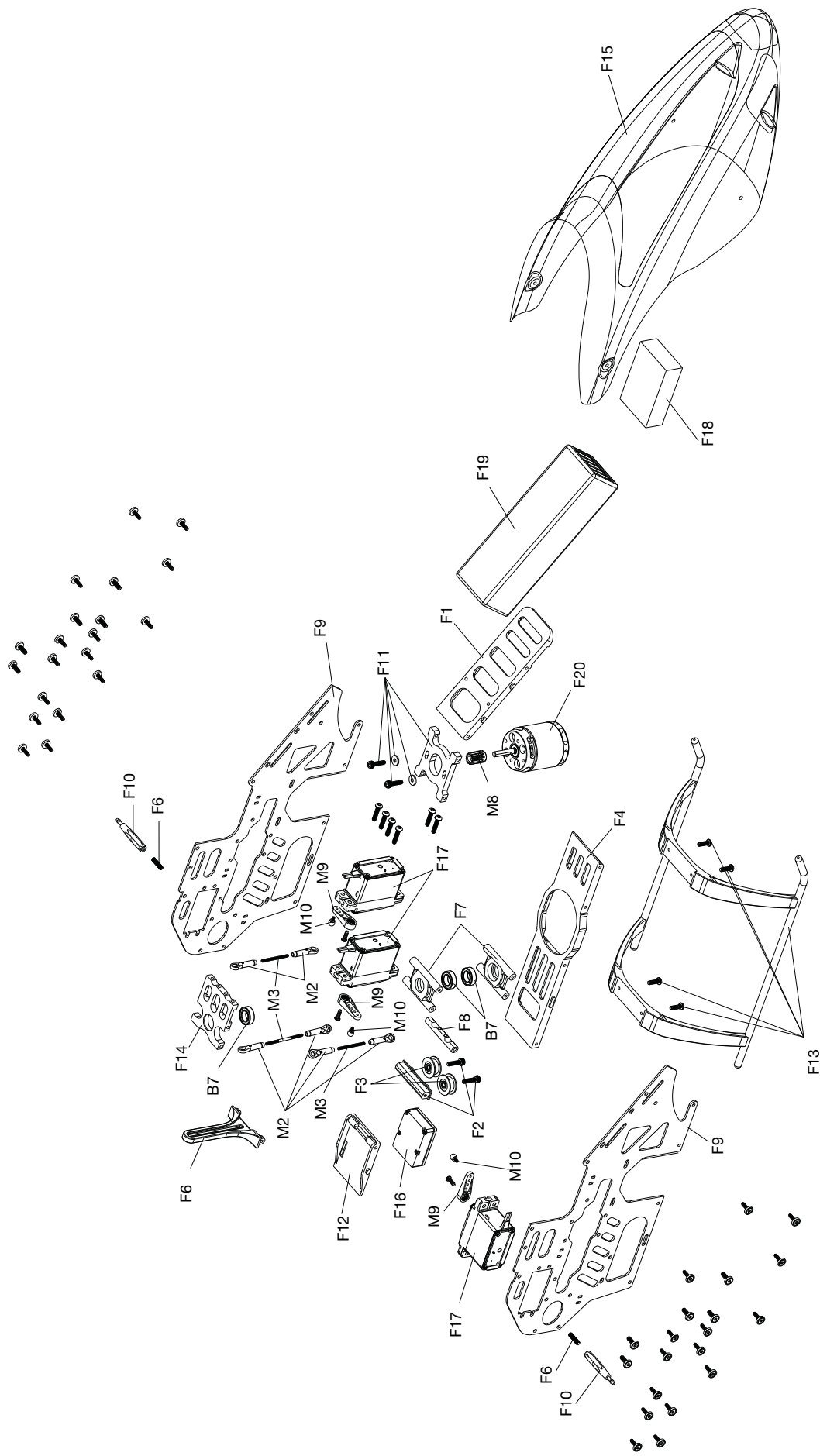
Steven A. Hall
Vice President
International Operations and Risk Management
Horizon Hobby, Inc.

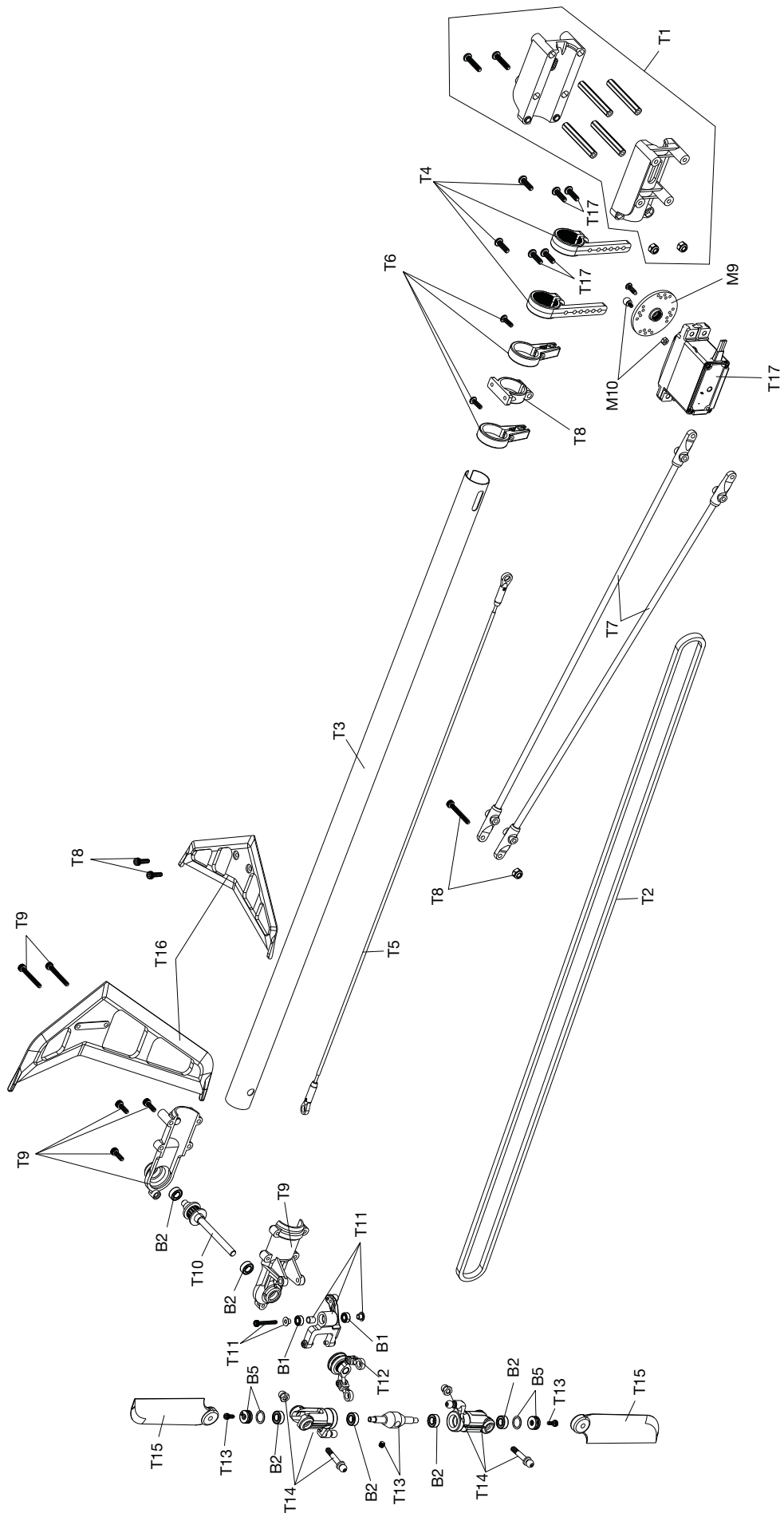
Instructions for disposal of WEEE by users in the European Union



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 collection 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.







Head Explosion/ Explosionszeichnung Rotorkopf / Vue éclatée de la tête/ Vista esplosa della testa

#	Part #	English	Deutsch	Français	Italiano
H1	BLH4003	Main Rotor Grip FBL Control Balls (2): B500 X	Blade Blatthalter Kugelköpfe (2): B500 X	Rotules de commande, poignée, rotor principal FBL (2) : B500 X	Sfere controllo FBL portapala rotore principale (2): B500 X
H2	BLH4004	Flybarless Linkage Set: B500 X	Blade Flybarless Anlenkungset: B500 X	Jeu de commandes sans barre : B500 X	Set di leveraggi senza flybar: B500 X
H3	BLH4015	CF FBL Main Blade Set w/washers: B500 X	Blade Carbon Hauptrotorblätter m. Unterlegscheibe : B500 X	Jeu de pales principales CF FBL avec rondelles : B500 X	Set pala principale CF FBL con rondelle: B500 X
H4	BLH4017	FBL Main Rotor Grip Set: B500 X	Blade Flybarless Rotorblatthalter Set: B500 X	Jeu de poignée, rotor principal FBL : B500 X	Set portapala rotore principale FBL: B500 X
H5	BLH4022	Aluminum FBL Head Block Set: B500 X	Blade Aluminum Flybarless Rotorkopfblock Set: B500 X	Jeu de contour FBL en aluminium : B500 X	Set blocco testa FBL in alluminio: B500 X
H6	BLH4031	FBL Follower Arms: B500 X	Blade Flybarless Taumelscheibenmitnehmer : B500 X	Bras suiveur FBL : B500 X	Bracci inseguitore FBL: B500 X
H7	BLH4047	FBL Main Shaft (2): B500 X	Blade Flybarless Hauptwelle (2): B500 X	Arbre principal FBL (2) : B500 X	Albero principale FBL (2): B500 X
H8	BLH1802	80 Degree Dampers (4): B500 3D/X	Blade 80° Dämpfer (4): B500 3D/X	Clés 80 degré (4) : B500 3D/X	Smorzatori 80 gradi (4): B500 3D/X
H9	BLH1803	One-Way Bearing Hub w/One way bearing: B500 3D/X	Blade Freilauf: B500 3D/X	Moyeu à roulement unidirectionnel avec moyeu unidirectionnel : B500 3D/X	Mozzo cuscinetto a senso unico con cuscinetto a senso unico: B500 3D/X
H10	BLH1816	Main Rtr Blade Mntng Screw&Nut set (2): B500 3D/X	Blade Hauptrotorblätterschrauben u. Muttern Set (2): B500 3D/X	Jeu de vis et écrous pour le maintien des pales du rotor principal (2) : B500 3D/X	Set viti e dadi per il montaggio delle pale del rotore principale (2): B500 3D/X
H11	BLH1821	Spindle Set (2): B500 3D/X	Blade Spindle Set (2): B500 3D/X	Jeu de broches (2) : B500 3D/X	Set alberino (2): B500 3D/X
H12	BLH1829	Head Button Set: B500 3D/X	Blade Rotorkopfabdeckungset : B500 3D/X	Jeu de vis à de tête bouton : B500 3D/X	Set viti a testa bombata: B500 3D/X
H13	BLH1832	Washout Control Arm Link Set: B500 3D/X	Blade Pitchkompensator Verbinderstücke: B500 3D	Jeu d'arrêt de bras de la commande de lavage : B500 3D/X	Set collegamento bracci di comando washout: B500 3D/X
H14	BLH1833	Aluminum Swashplate: B500 3D/X	Blade Aluminium Taumelscheibe : B500 3D/X	Plateau cyclique en aluminium : B500 3D/X	Piastra di beccheggio in alluminio: B500 3D/X
H15	BLH1848	Mainshaft Retaining Collar: B500 3D/X	Blade Stellring Rotorwelle : B500 3D/X	Bagues de maintien de l'axe principal : B500 3D/X	Fascetta di sostegno dell'albero principale: B500 3D/X
H16	BLH1849	One-Way Bearing Shaft and Shim Set: B500 3D/X	Blade Freilauf mit Unterlegscheibe Set: B500 3D/X	Jeu de cale et d'arbre de roulement unidirectionnel : B500 3D/X	Set spessori e albero cuscinetto a senso unico: B500 3D/X
H17	BLH1851	Main Gear (2): B500 3D/X	Blade Hauptzahnrad (2): B500 3D/X	Couronne principale (2) : B500 3D/X	Ingranaggio Principale (2): B500 3D/X
H18	BLH1853	Belt Drive Pulley: B500 3D/X	Blade Spannrolle Riemen : B500 3D/X	Poulie, courroie de transmission : B500 3D/X	Puleggia azionamento cinghia: B500 3D/X

Main Frame Explosion

#	Part #	English	Deutsch	Français	Italiano
F1	BLH1810	Battery Tray Set: B500 3D/X	Blade Akkuhalter Set: B500 3D/X	Set de compartiment de batterie : B500 3D/X	Set vassoio batteria B500 3D/X
F2	BLH1811	Belt Guide Cross Member Set: B500 3D/X	Blade Kreuzriemenhalter Set : B500 3D/X	Set de guide de courroie en croix B500 3D/X	Set membro incrociato guida della cinghia: B500 3D/X
F3	BLH1814	Belt Pulley Guides with Bearings (2): B500 3D/X	Blade Riemenantriebsführung mit Lager (2): B500 3D/X	Guides de poulie de courroie avec roulements (2) : B500 3D/X	Guide della puleggia della cinghia con cuscinetti (2): B500 3D/X
F4	BLH1819	Bottom Tray Set: B500 3D/X	Träger unten/B500 3D/X	Set de compartiment inférieur : B500 3D/X	Set vassoio inferiore: B500 3D/X
F5	BLH1827	Servo Mounting Tab Set: B500 3D/X (not shown)	Blade Servohalter Set: B500 3D/X	Set de languettes de montage de servo : B500 3D/X (non représenté)	Set tab montaggio servo: B450 3D/X (non mostrato)
F6	BLH1834	Anti-Rotation Bracket/Guide: B500 3D/X	Blade Taumelscheibenführung : B500 3D/X	Tasseau/guide d'anticouple : B500 3D/X	Staffa/guida anti-rotazione: B500 3D/X
F7	BLH1835	Lower Bearing Block Set: B500 3D/X	Blade unteres Lagerhalter Set: B500 3D/X	Set de bloc à billes inférieur : B500 3D/X	Set blocco cuscinetto inferiore: B500 3D/X
F8	BLH1836	Servo Support Cross Member: B500 3D/X	Blade Servo Support Halter: B500 3D/X	Partie en croix du support de servo B500 3D/X	Membro incrociato supporto del servo: B500 3D/X
F9	BLH1839	CF Main Frame Set: B500 3D/X	Blade Carbon Hauptrahmen Set: B500 3D/X	Set de cellule principale CF : B500 3D/X	Set telaio principale CF: B500 3D/X
F10	BLH1841	Canopy Mounts: B500 3D/X	Blade Kabinenhaubhalter : B500 3D/X	Supports de bulle : B500 3D/X	Montanti calottina: B500 3D/X

Main Frame Explosion / Explosionzeichnung Rumpf / Vue éclatée de la cellule principale / Vista esplosa telaio principale

#	Part #	English	Deutsch	Français	Italiano
F11	BLH1843	Aluminum Motor Mount: B500 3D/X	Blade Aluminum Motorhalter : B500 3D/X	Support moteur en aluminium : B500 3D/X	Montante del motore in alluminio: B500 3D/X
F12	BLH1844	Receiver Tray Set: B500 3D/X	Blade Empfängerhalterset : B500 3D/X	Set de compartiment récepteur : B500 3D/X	Set vassoio ricevitore: B500 3D/X
F13	BLH1845B	Landing Gear Set Black: B500 3D/X	Blade Kufengestell schwarz: B500 3D/X	Jeu de train d'atterrissage principal, noir : B500 3D/X	Set del carrello di atterraggio, nero: B500 3D/X
F14	BLH1854	Upper Bearing Block Set: B500 3D/X	Blade Lagerhalter oben : B500 3D/X	Set de bloc à billes supérieur : B500 3D/X	Set blocco cuscinetto superiore: B500 3D/X
F15	BLH4081	Fireball Canopy: B500 3D	Blade Kabinenhaube : B500 3D	Bulle « Fireball » B500 3D	Calottina asta: B500 3D
F16	SPM AR7200BX	AR7200BX 7CH DSMX Flybarless Control System	AR7200BX 7CH DSMX Flybarless	Module AR7200BX 7voies DSMX Flybarless	Sistema di controllo Flybarless AR7200BX 7CH DSMX
F17	SPMSH310	SH310 Digital Cyclic Servo	Spektrum SH310 Austausch Blade 500 Taumelscheiben Servo	Servo de cyclique numérique SH310	SH310 Servo digitale ciclico
F18	EFLA370H	70-Amp S-BEC Brushless ESC	E-flite 70A Hubschrauber Brushless Regler: B500 3D/X	CEV (ES) Brushless 70 A S-BEC	ESC Brushless S-BEC 70 Amp:
F19	EFLB 29006S30	2900 mAh 6S 22.2V 30C Li-Po 13AWG EC3	E-flite 2900 mAh 6S 22.2V 30C Li-Po Akku 13AWG EC3	Li-Po 6S 22,2 V 30C 2900 mAh EC3 13AWG	2900 mAh 6S 22.2V 30C Li-Po 13AWG EC3
F20	EFLM1370H	520H Helicopter Motor 1320Kv	E-flite 520H Hubschrauber Motor 1320Kv	Moteur d'hélicoptère 520H 1320Kv	520H Motore elicottero 1320Kv

Tail Explosion / Explosionzeichnung Heck / Vue éclatée de la queue / Vista esplosa della coda

#	Part #	English	Deutsch	Français	Italiano
T1	BLH1846	Tail Boom Case Set: B500 3D/X	Blade Heckrohrhalter Set: B500 3D/X	Set de poutre de queue : B500 3D/X	Set case asta della coda: B500 3D/X
T2	BLH1856	Tail Drive Belt: B500 3D/X	Blade Heckrotorriemen: B500 3D/X	Courroie d'entraînement d'anticouple : B500 3D/X	Cinghia di trasmissione di coda: B500 3D/X
T3	BLH1857	Tail Boom (2): B500 3D/X	Blade Heckrohr (2) Set: B500 3D/X	Poutre de queue (2) : B500 3D/X	Asta della coda (2): B500 3D/X
T4	BLH1858	Tail Servo Boom Mount (2): B500 3D/X	Blade Heckrotorservohalter (2): B500 3D/X	Support de servo d'anticouple (2) : B500 3D/X	Montante asta servo di coda (2): B500 3D/X
T5	BLH1859	Tail Linkage/Pushrod Set (2): B500 3D/X	Blade Heckrotorgestänge Set (2): B500 3D/X	Set de biellettes/tiges d'anticouple (2) B500 3D/X	Set collegamento di coda/asta di spinta (2): B500 3D/X
T6	BLH1860	Tail Pushrod Support Guide/Set: B500 3D/X	Blade Heckrotorgestängehalter : B500 3D/X	Set de support de tiges d'anticouple : B500 3D/X	Set/guida di sostegno asta di spinta di coda: B500 3D/X
T7	BLH1861	CF Tail Boom Brace Set (2): B500 3D/X	Blade Kohlefaserheckrohrhalter (2): B500 3D/X	Set de renforts de poutre CF (2) : B500 3D/X	Set di sostegno braccio asta della coda (2): B500 3D/X
T8	BLH1862	Horizontal Fin Mount: B500 3D/X	Blade Leitwerkshalter : B500 3D/X	Support de stabilisateur : B500 3D/X	Montaggio deriva orizzontale: B500 3D/X
T9	BLH1863	Tail Case Set: B500 3D/X	Blade Aluminum Leitwerkshalter : B500 3D/X	Boîtier d'anticouple : B500 3D/X	Set case coda: B500 3D/X
T10	BLH1865	Tail Rotor Shaft and Drive Pulley (2): B500 3D/X	Blade Heckrotorwelle mit Riemenscheibe (2): B500 3D/X	Axe d'anticouple et poulie (2) : B500 3D/X	Albero rotore di coda e puleggia di trasmissione (2): B500 3D/X
T11	BLH1867	Tail Rotor Pitch Lever Set: B500 3D/X	Blade Heckrotorpitchhebel Set: B500 3D/X	Set de levier de pas d'anticouple : B500 3D/X	Set leva pitch del rotore di coda: B500 3D/X
T12	BLH1868	Tail rotor Pitch Control Slider Set: B500 3D/X	Blade Schiebepöhlse Heckrotor Set: B500 3D/X	Set de slider d'anticouple : B500 3D/X	Set cursore comando passo rotore di coda: B500 3D/X
T13	BLH1869	Tail Rotor Hub: B500 3D/X	Blade Heckrotorzentralstück : B500 3D/X	Moyeu d'anticouple : B500 3D/X	Mozzo rotore di coda: B500 3D/X
T14	BLH1870	Tail Rotor Blade Grip/Holder Set: B500 3D/X	Blade Heckrotorblatthalter : B500 3D/X	Set de pieds/support de pales d'anticouple : B500 3D/X	Set pinza/sostegno pale del rotore: B500 3D/X
T15	BLH1871	Tail Rotor Blade Set: B500 3D/X	Blade Heckrotorblätter Set: B500 3D/X	Set de pales anticouple : B500 3D/X	Set pale del rotore di coda: B500 3D/X
T16	BLH1872B	Stabilizer Fin Set Black: B500 3D/X	Blade Leitwerksfennenset schwarz : B500 3D/X	Set de stabilisateur/dérive, noir : B500 3D/X	Set deriva di stabilizzazione nero: B500 3D/X
T17	SPMSH410	SH410 High-Speed Digital Tail Servo	Spektrum SH410 Austausch Blade 500 Kreisel Servo	Servo numérique d'anticouple grande vitesse SH410	SH410 Servo digitale ad alta velocità della coda

Bearings / Lager / Roulements à billes / Cuscinetti

#	Part #	English	Deutsch	Français	Italiano
B1	EFLH1115	3x6x2.5 Bearing (2)	Blade 3x6x2,5 Kugellager(2)	Roulement 3×6×2,5 (2)	3×6×2.5 Cuscinetto (2)
B2	BLH1605	4x8x3 Bearing (2)	Blade 4x8x3 Kugellager (2)	Roulement 4×8×3 (2)	4×8×3 Cuscinetto (2)
B3	BLH1642	5x10x4 Bearing (2)	Blade 5x10x4 Kugellager (2)	Roulement 5×10×4 (2)	5×10×4 Cuscinetto (2)
B4	BLH1620	3x8x3.5 Thrust Bearing (2)	Blade Drucklager (2) 3 x 8x 3,5	Butées à billes 3×8×3,5 (2)	3×8×3.5 Cuscinetto a sfere (2)
B5	BLH1809	2x5x2.5 Flanged Bearing (2)	Blade 2x5x2,5 Kugellager mit Flanke (2)	Butées à billes à rebord 2×5×2,5 (2)	2×5×2.5 Cuscinetto flangiato (2)
B6	BLH1820	5x11x4.5 Thrust Bearing (2)	Blade Drucklager 5x11x4,5 (2)	Butées à billes 5×11×4,5 (2)	5×11×4.5 Cuscinetto a sfere (2)
B7	BLH1842	8x14x4 Bearing	Blade 8x14x4 Kugellager	Roulement 8×14×4	8×14×4 Cuscinetto
B8	BLH1852	One-Way Bearing: B500 3D/X	Blade Freilauf: B500 3D/X	Roulement unidirectionnel : B500 3D/X	Cuscinetto ad autorotazione B500 3D/X

Miscellaneous / Verschiedenes / Divers / Varie

#	Part #	English	Deutsch	Français	Italiano
M1	BLH1801	Helicopter Main Blade Holder (not shown)	Blade B500 3D/X Blatthalter (nicht abgebildet)	Support de pale de principale (non représenté)	Supporto pala principale elicottero (non mostrato)
M2	BLH1837	Ball Link Set: B500 3D/X	Blade Kugelkopf Set: B500 3D	Set de rotules : B500 3D/X	Set collegamento sfera: B500 3D/X
M3	BLH1838	Linkage Rod/Pushrod Set: B500 3D	Blade Gestänge Set: B500 3D	Set de biellettes/tiges : B500 3D	Set asta/asta di spinta del giunto: B500 3D
M4	BLH1855	Control Ball Set: B500 3D	Blade Kugelset : B500 3D	Set de rotules de commande : B500 3D	Set sfera di controllo: B500 3D
M5	BLH1864	Battery Strap Velcro (2): B500 3D/X (not shown)	Blade Klettband Akkuhalter (2): B500 3D/X (nicht abgebildet)	Brides de batterie Velcro (2) : B500 3D/X (non représenté)	Fascette in velcro della batteria (2): B450 3D/X (non mostrato)
M6	BLH1873	Complete Hardware Set: B500 3D	Blade Kleinteile kpl. Set: B500 3D	Set de matériel complet : B500 3D	Set completo hardware: B500 3D
M7	BLH1874	Mounting Accessories: B500 3D/X	Blade Montage Zubehör : B500 3D/X	Accessoires de montage : B500 3D/X	Accessori di montaggio: B500 3D/X
M8	BLH1813	13T Pinion: B500 3D/X	Blade 13T Ritzel: B500 3D/X	Pignon 13T : B500 3D/X	13T pignone: B500 3D/X
M9	BLH1876	Servo Arm Set: B500 3D/X	Blade Servoarm Set: B500 3D/X	Jeu de bras de servo : B500 3D/X	Set braccio del servo: B500 3D/X
M10	BLH1877	Servo Control Ball Set: B500 3D/X	Blade B500 3D/X Servokugelkopf Set	Set de rotules de commande de servo : B500 3D/X	Set sfera di controllo servo: B500 3D/X
M11	EFLC3120	6S 22.2V Li-Po Balancing Charger 2.5A (not shown)	6S 22.2V Li-Po Balancer Ladegerät 2.5A (nicht abgebildet)	Chargeur-équilibreur Li-Po 6S 22,2 V 2,5 A (non représenté)	6S 11,1 V LiPo caricabatterie con bilanciatore, 2,5A (non mostrato)

Optional Parts / Optionale Bauteile / Pièces optionnelles / Pezzi opzionali

Part #	English	Deutsch	Français	Italiano
BLH4017A	Aluminum FBL Main Rotor Grip Set: B500 X	Blade Aluminium Flybarless Rotorblatthalter Set: B500 X	Jeu de poignée, rotor principal FBL en aluminium : B500 X	Set portapala rotore principale FBL in alluminio: B500 X
BLH4031A	Aluminum FBL Follower Arms: B500 X	Blade Aluminium Flybarless Taumelscheibenmitnehmer : B500 X	Bras suiveur en aluminium FBL : B500 X	Bracci inseguitore FBL in alluminio: B500 X
BLH4081A	Powder Canopy: B500 X	Blade Powder Kabinenhaube: B500 X	Verrière : B500 X	Calotta Powder: B500 X
BLH4081FG	Fiberglass canopy: B500 X	Blade GFK Kabinenhaube: B500X	Verrière en fibre de verre : B500 X	Calotta in fibra di vetro: B500 X
BLH1834A	Aluminum Anti-Rotation Bracket: B500 3D/X	Blade Aluminum Taumelscheibenführung : B500 3D/X	Tasseau anti-rotation en aluminium : B500 3D/X	Staffa anti-rotazione in alluminio: B500 3D/X
BLH1835A	Aluminum Bearing Blocks: B500 3D/X	Blade Aluminum unteres Lagerhalterset Set: B500 3D/X	Blocs à billes en aluminium : B500 3D/X	Blocchi cuscinetto il alluminio: B500 3D/X
BLH1841A	Aluminum Canopy Mounts: B500 3D/X	Blade Aluminium Kabinenhaubenhalter : B500 3D/X	Supports de bulle en aluminium : B500 3D/X	Montanti calottina in alluminio: B500 3D/X
BLH1845	Landing Gear Set White: B500 3D/X	Blade Kufengestell weiss: B500 3D/X	Jeu de train d'atterrissage principal, blanc : B500 3D/X	Set del carrello di atterraggio, bianca: B500 3D/X
BLH1857C	Carbon Fiber Tail Boom: B500 3D/X	Blade B500 3D/X Heckausleger Kohlefaser	Poutre de queue en fibre de carbone : B500 3D/X	Asta di coda in fibra di carbonio: B500 3D/X

Optional Parts / Optionale Bauteile / Pièces optionnelles / Pezzi opzionali

Part #	English	Deutsch	Français	Italiano
BLH1858A	Aluminum Tail Servo Mount: B500 3D/X	Blade Aluminium Heckrotorservohalter : B500 3D/X	Support de servo d'anticouple en aluminium : B500 3D/X	Montante del servo di coda in alluminio: B500 3D/X
BLH1861A	Tail Boom Brace/Support Set/Aluminum E: B500 3D/X	Blade Kohlefaserheckrohrhalter (2): B500 3D/X	Set de renforts et support de poutre en aluminium E : B500 3D/X	Sostegno asta della coda/set supporto/alluminio E: B500 3D/X
BLH1862A	Aluminum Horizontal Fin Mount: B500 3D/X	Blade Leitwerkshalter : B500 3D/X	Support de dérive horizontale en aluminium : B500 3D/X	Montante deriva orizzontale in alluminio: B500 3D/X
BLH1863A	Aluminum Tail Case: B500 3D/X	Blade Aluminum Heckrotorgehäuse : B500 3D/X	Boîtier d'anticouple en aluminium B500 3D/X	Case coda in alluminio: B500 3D/X
BLH1865A	Tail Rotor Shaft Aluminum Drive Pulley: B500 3D/X	Blade Aluminium Tail Heckrotorwelle mit Riemenscheibe (2): B500 3D/X	Axe d'anticouple et poulie en aluminium : B500 3D/X	Puleggia trasmissione in alluminio dell'albero del rotore di coda: B500 3D/X
BLH1867A	Aluminum Pitch Lever: B500 3D/X	Blade Aluminium Heckrotorpitchhebel Set : B500 3D/X	Levier de pas d'anticouple en aluminium : B500 3D/X	Leva del pitch in alluminio: B500 3D/X
BLH1868A	Aluminum Tail Pitch Slider: B500 3D/X	Blade Aluminium Schiebehülse Heckrotor Set : B500 3D/X	Slider d'anticouple en aluminium : B500 3D/X	Cursore del pitch in alluminio: B500 3D/X
BLH1870A	Aluminum Tail Rotor Grip Set: B500 3D/X	Blade Aluminium Heckrotorblatthalter Set: B500 3D/X	Set de pieds de pales d'anticouple en aluminium : B500 3D/X	Set di serraggio del rotore di coda in alluminio: B500 3D/X
BLH 1871GR	Tail Rotor Blade Set, Green: B500 3D/X	Blade B500: Heckrotorblätter; Grün	Set de pales d'anticouple, vert : B500 3D/X	Set pale del rotore di coda, verde: B500 3D/X
BLH 1871OR	Tail Rotor Blade Set, Orange: B500 3D/X	Blade B500: Heckrotorblätter Orange	Set de pales d'anticouple, orange : B500 3D/X	Set pale del rotore di coda, arancione: B500 3D/X
BLH 1871YE	Tail Rotor Blade Set, Yellow: B500 3D/X	Blade B500: Heckrotorblätter Gelb	Set de pales d'anticouple, jaune : B500 3D/X	Set pale del rotore di coda, giallo: B500 3D/X
BLH1872B	Stabilizer Fin Set Black: B500 3D/X	Blade Leitwerksfennenset schwarz : B500 3D/X	Set de stabilisateur/dérive, noir : B500 3D/X	Set deriva di stabilizzazione nero: B500 3D/X
BLH1872C	Carbon Fiber Fin Set: B500 3D/X	Blade Carbon Fennenset : B500 3D/X	Set de dérive en fibre de carbone : B500 3D/X	Set deriva in fibra di carbonio: B500 3D/X
BLH1874A	Aluminum Servo Control Arms: B500 3D/X	Blade Aluminium Servoarme : B500 3D/X	Bras de servos en aluminium : B500 3D/X	Bracci comandi servo in alluminio: B500 3D/X
BLH1875	12T Pinion: B500 3D/X	Blade 12T Ritzel: B500 3D/X	Pignon 12T : B500 3D/X	12T pignone: B500 3D/X
BLH1885	Bell 222 Painted Scale Fuselage: B500 3D/X	Blade 500 Bell 222 Rumpf Set lackiert	Fuselage à l'échelle couleurs Bell 222 B500 3D/X	Fusoliera in scala Bell 222 dipinta: B500 3D/X
BLH1899	Carrying Case: B500 3D/X	Blade Tragekoffer B500 3D /X	Coffret de transport : B500 3D/X	Alloggiamento di trasporto: B500 3D/X
BLH4099	Aluminum 500 Flybarless Conversion Set: B500 3D	Aluminium 500 Flybarless Umbau Set: B500 3D	Set de conversion Flybarless 500 en aluminium : B500 3D	Set conversione senza flybar 500 in alluminio: B500 3D
EFLC3025	Celectra 80W AC/DC Multi-Chemistry Battery Charger	E-flite 80W AC/DC Multi-Batterie Ladegerät - EU	Chargeur de batterie multi-types CA/CC Celectra 80 W	Caricabatterie per batteria multi-chimica 80 W CA/CC
EFLC4005	12VDC, 120W Power Supply	E-flite 12VDC 120W Netzgerät	Alimentation 12 V CC, 120 W	12VCC, 120W alimentatore
EFLC3020	Celectra 200W DC Multi-Chemistry Battery Charger	E-flite 200W DC Multi-Batterie Ladegerät	Chargeur de batterie multi-types CC Celectra 200 W	Celectra 200W DC caricabatteria multichimico
	DX8 DSMX Transmitter Only	Spektrum DX8 DSMX Sender	Émetteur DSMX DX8 seul	Solo trasmettitore DSMX DX8
	DX6i DSMX Transmitter Only	Spektrum DX6i DSMX Nur Sender	Émetteur DSMX DX6i seul	DX6i DSMX Solo trasmettitore
	DX7s Transmitter Only	Spektrum DX7s nur Sender	Émetteur DX7s seul	DX7s Solo trasmettitore

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US patent number 7,391,320. Other patents pending.

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