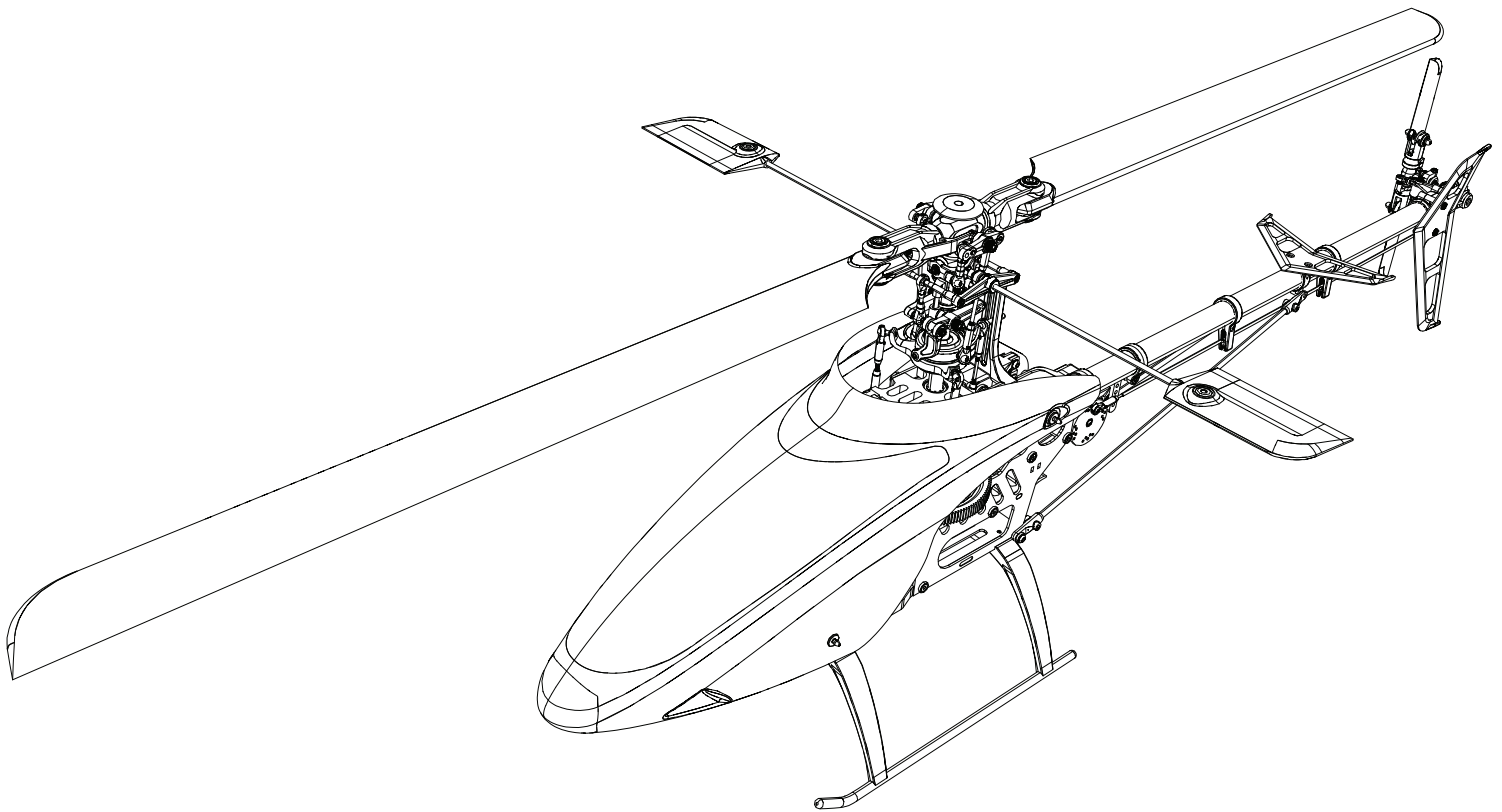


BNF **RTF**
BASIC

BLADE[®] **500 3D**



Instruction Manual
Bedienungsanleitung
Manuel d'utilisation
Manuale di Istruzioni

NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, 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: Not for beginner fliers or those under the age of 14. 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.

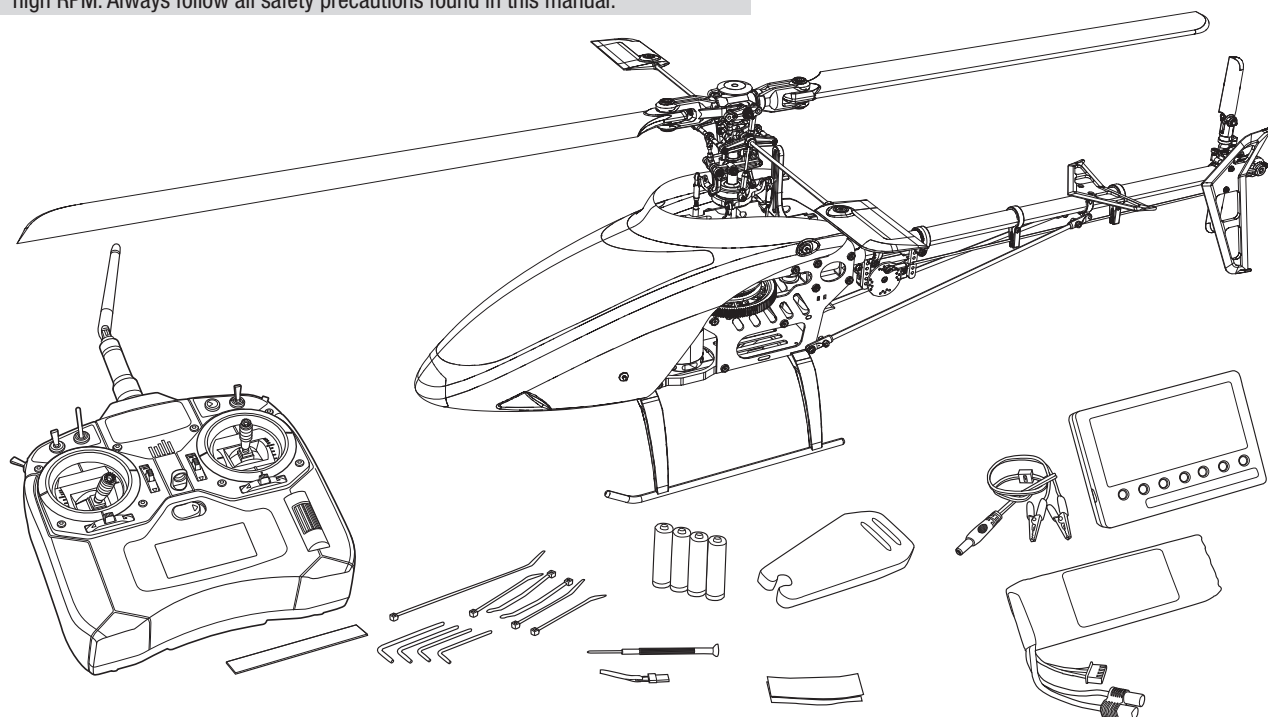
BLADE® 500 3D

BLH1800
RTF

BLH1850
BNF
BASIC



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



*Transmitter, Li-Po, AA Batteries and Charger not included with BNF Basic Version

Table of Contents

Charging the Flight Battery	4
Battery Charging Codes	4
Charging Warnings.....	5
Throttle Hold	5
Transmitter Setup	6
Transmitter and Receiver Binding.....	9
Installing the Flight Battery	9
Rudder Control Test	10
Cyclic Control Test	10
Motor Control Test.....	11
Blade 500 3D Pre-Flight Checklist.....	11
Choosing a Flying Location	11
Flying the Blade 500 3D.....	11
Low Voltage Cutoff (LVC)	12
Flight Guidelines and Warnings	12
Adjusting the Drive Belt Tension.....	12
Post-Flight Inspections and Maintenance.....	12
Maintenance check list	12
Blade 500 3D Post-Crash Check List.....	13
Limited Warranty and Contact Information	13
AMA National Model Aircraft Safety Code.....	14
FCC Information	14
Compliance Information for the European Union.....	15
Parts List	59
Optional Parts	61

Blade 500 3D Specifications

Length	33.5 in (850mm)
Height	11.8 in (300mm)
Main Rotor Diameter	38.2 in (970mm)
Tail Rotor Diameter	7.8 in (200mm)
Flying Weight	4.06 lb (1842 g)

Components

Motor	520H Brushless outrunner, 1320Kv (installed)
ESC	70-amp brushless (installed)
Battery	6S 22.2V 2900mAh 30C Li-Po (included with RTF)
Charger	DC Li-Po Balancing Charger (included with RTF)
Transmitter	Spektrum™ DX6i 6-channel Computer Radio with AA Batteries (included with RTF)
Receiver	Spektrum AR6210 6-Channel DSMX® Receiver (installed)
Swash Servos	Spektrum S300 (installed)
Tail Servo	Spektrum S400G (installed)
Gyro	G210 MEMS Heading Lock (installed)

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

Charging the Flight Battery

The Blade® 500 3D 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.

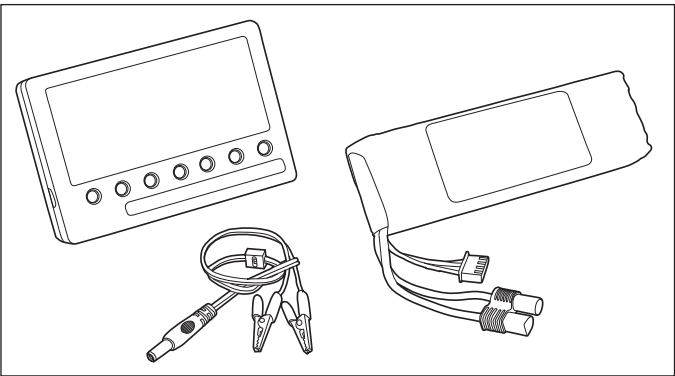
Never leave the battery and charger unattended during the charge process. Failure to follow the instructions properly could result in a fire. When charging, ensure the battery is on a heat-resistant surface. Charge the flight battery before binding the helicopter and performing control tests.

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 3D 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: Never overcharge a Li-Po battery or use a battery charger not designed to charge Li-Po batteries. Doing so may result in a fire that causes injury or property damage.

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: 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 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 or store batteries in extremely hot or cold places (recommended between 40–120° F or 4–49° C) or place in direct sunlight.

RTF

Throttle Hold

Throttle hold only turns off the motor on an electric helicopter. You maintain pitch and direction control.

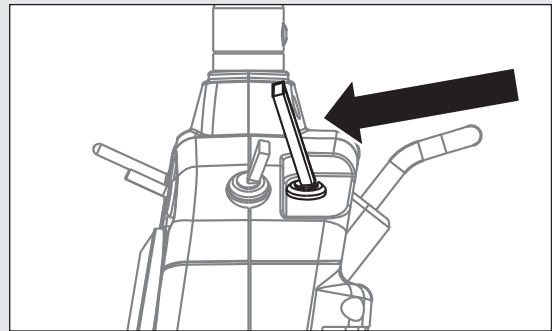
The blades will spin if throttle hold is OFF (0). For safety, turn throttle hold ON (1) any time you need to touch the helicopter or check the direction controls.

Throttle hold is also used to turn off the motor if the helicopter is out of control, in danger of crashing, or both. Throttle hold will also allow you to perform an auto-rotation landing when the helicopter has sufficient altitude.

Please refer to your DX6i transmitter manual for more information on throttle hold.



CAUTION: For safety, always ensure you have turned TH HOLD ON (1) until you are ready to fly the helicopter.



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, 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

SETUP LIST

Model Type	Reverse	Swash Type	Timer
HELI	THRO—N	CCPM 120	Type—Down
	AILE—R		Time—4:00
	ELEV—N		Switch—Trainer
	RUDD—R		
	GYRO—N		
	PITC—N		

ADJUST LIST

	D/R	Expo	TRAVEL ADJUST	SUB-TRIM
AILE 0	100%	15	THRO 100%	THRO 0
ELEV 0	100%	15	AILE 100%	AILE 0
RUDD 0	100%	0	ELEV 100%	ELEV 0
			RUDD 80%	RUDD 0
AILE 1	85%	10	GYRO 100%	GYRO 0
ELEV 1	85%	10	PITC 100%	PITC 0
RUDD 1	85%	0		

GYRO

Rate	SW-F. Mode
0 72.0%	NORM 0
1 68.0%	STUNT 1

THRO CUR

	L	2	3	4	H
NORM	0%	60%	80%	80%	80%
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

AILE	-91%
ELEV	91%
PITC	64%

Spektrum DX7/DX7se

SYSTEM LIST

Model Type	Swash Type	Input Select
HELI	3 Servo 120 Degree CCPM	AUX2 INH GEAR GYRO

ADJUST LIST

POS-0

AILE	ELEV	RUDD
EXP 15%	EXP 15%	EXP LIN
D/R 100%	D/R 100%	D/R 100%

POS-1

AILE	ELEV	RUDD	AUTO	D/R	EXP
EXP 10%	EXP 10%	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	N	R	N	R	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 80%
U 100%	R 80%
GEAR	PIT
+ 100%	H 100%
- 100%	L 100%
AUX2	
+ 100%	
- 100%	

THRO HOLD

HOLD POS	0.0%
SW	RUDD D/R

GYRO SENS

AUTO	F. MODE
RATE	NORM 0
0 81.0%	STNT 1
1 77.0%	HOLD 0

TIMER

DOWN-T	4:00
--------	------

SWASH MIX

AILE	68%
ELEV	-68%
PITC	55%

THRO CURVE

	L	1	2	3	H
NORM	0%	60%	80%	80%	80%
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%

Transmitter Setup

Spektrum DX7s

SYSTEM LIST

Model Type	Swash Type	Switch Select	F Mode Setup	Warnings	Frame Rate
Helicopter	3 Servos 120	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	N
AILERON	100	100	AILERON	N
ELEVATOR	100	100	ELEVATOR	N
RUDDER	80	80	RUDDER	R
GYRO	100	100	GYRO	N
PITCH	100	100	PITCH	R
AUX2	100	100	AUX2	N

D/R AND EXPO

	POS	D/R	D/R	EXPO	SW
AILERON	0	100	100	15	AILE D/R
AILERON	1	85	85	10	AILE D/R
ELEVATOR	0	100	100	15	ELEV D/R
ELEVATOR	1	85	85	10	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	60	80	80	80	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	55
STUNT 1/POS 1	53
HOLD	55

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	25

SWASHPLATE

AILE	79%
ELEV	-79%
PITC	55%
EXP	INH

Transmitter Setup

Spektrum DX8

SYSTEM LIST

Model Type	Swash Type	Switch Select	F Mode Setup	Trim Step	Warnings	Frame Rate
Helicopter	3 Servos 120	All Switches INH	Flight Mode — F Mode	THR 5	Throttle —Over 10	11ms
			Hold — Hold	AIL 5	Stunt 1—Act	DSMX
				ELE 5	Stunt 2—Act	
				RUD 5	Hold—Act	
				R TRIM 5	Alarm—Tone/Vibe	
				L TRIM 5		
				TYPE Common		

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	N	ELEVATOR	NORM
RUDDER	80 80	RUDDER	0	RUDDER	R	RUDDER	NORM
GYRO	100 100	GYRO	0	GYRO	N	GYRO	NORM
PITCH	100 100	PITCH	0	PITCH	R	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	15	AILE D/R
AILERON	1,2	85	85	10	AILE D/R
ELEVATOR	0	100	100	15	ELEV D/R
ELEVATOR	1,2	85	85	10	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	60	80	80	80	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	55
STUNT 1/POS 1	53
STUNT 2/POS 2	53
HOLD	55

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	
AILE	79%
ELEV	-79%
PITC	55%
EXP	INH
E-RING	INH

Transmitter and Receiver Binding

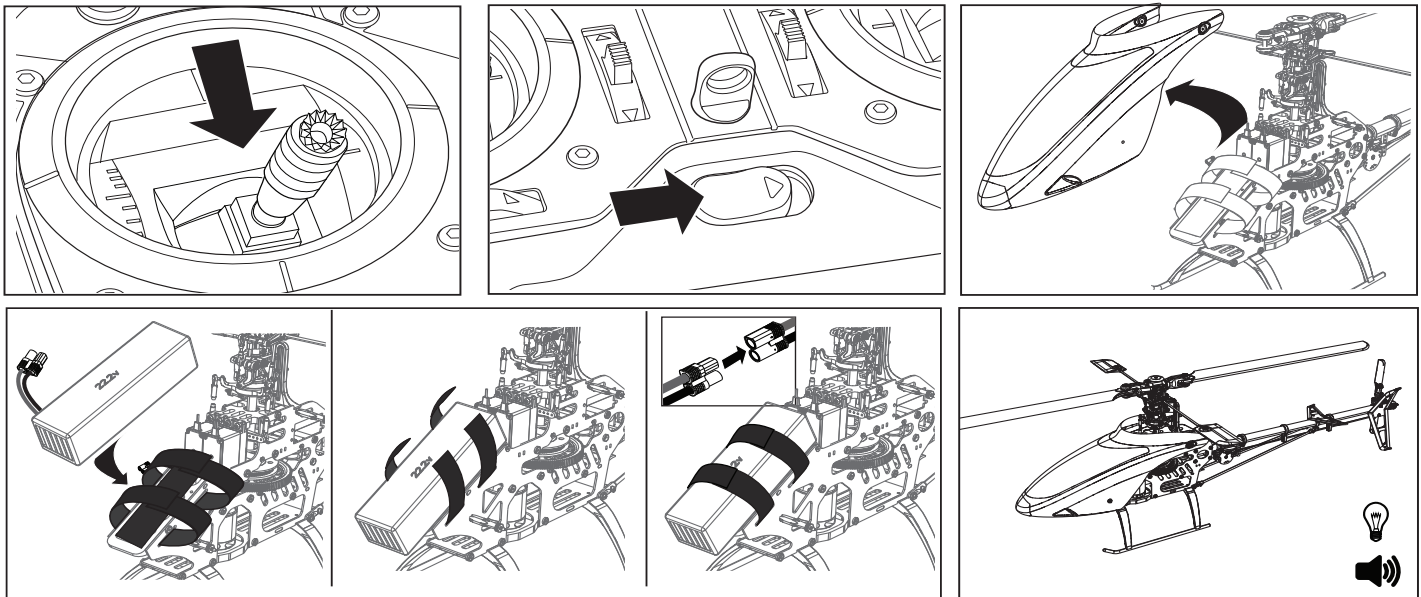
Binding is the process of programming the receiver to recognize the GUID (Globally Unique Identifier) code of a single specific transmitter. The Blade 500 3D RTF transmitter and receiver are bound at the factory. Should you need to re-bind the transmitter and receiver, follow the steps below.

Binding Procedure

1. Read transmitter instructions for binding to a receiver (location of transmitter's Bind control).
2. Make sure the transmitter is powered off.
3. Install a bind plug in the receiver battery/bind port.
4. Connect the flight battery to the ESC. The receiver LED will begin to flash rapidly.
5. Move the throttle stick to low throttle. Make sure the flight mode switch is in the normal position and throttle hold is OFF.
6. Power on the transmitter while holding the transmitter bind button or switch. Refer to your transmitter's manual for binding button or switch instructions.
7. When the receiver binds to the transmitter, the receiver lights will turn solid.
8. Disconnect the flight battery from the ESC. Remove the bind plug from the receiver.
9. Safely store the bind plug (some owners attach the bind plug to their transmitter using two-part loops and clips).
10. The receiver will keep the binding to the transmitter until another binding is done.

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.

Installing the Flight Battery

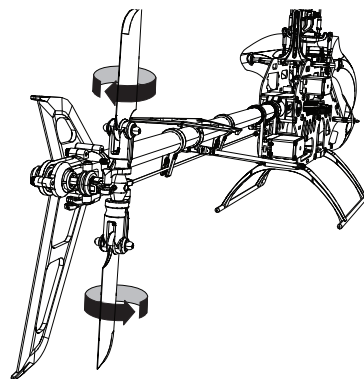


1. Attach the hook material to the helicopter frame and the loop material to the flight battery.
2. Install the flight battery on the helicopter frame. Secure the flight battery with the hook and loop strap.
3. Move the F Mode and TH HOLD switches to the (0) position.
4. Lower the throttle.
5. Power on the transmitter and center the throttle trim.
6. Move the TH HOLD switch to the (1) position.
7. Connect the blue EC3™ battery connector to the ESC.
8. Wait 5 seconds while the gyro initializes.
9. The helicopter ESC will emit a series of tones and emit a solid red LED on the gyro once it is ready.

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.

Rudder Control Test

1. Disconnect any two main motor wires from the ESC.
2. Power on the transmitter.
3. Make sure the transmitter is in Normal Mode.
4. Connect the flight battery to the ESC.
5. Move the rudder control to the right. The tail rotor blades move as shown. If they do not move as shown, reverse the rudder channel in the transmitter (refer to your transmitter manual for instructions).
6. Release the rudder control. Quickly turn the helicopter nose to the left. The tail blades move in the same direction as right rudder input. If they do not move as shown, change the position of the reverse switch on the gyro.



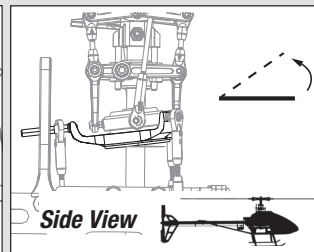
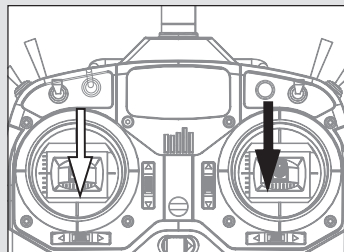
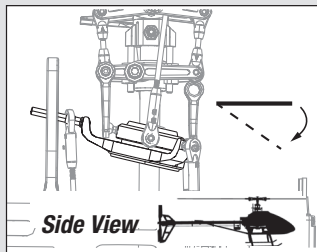
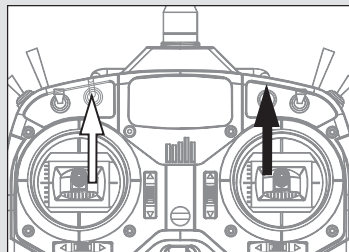
Cyclic Control Test

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

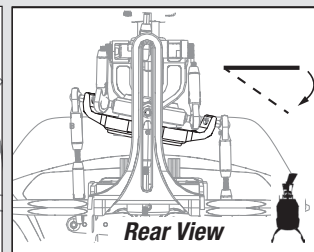
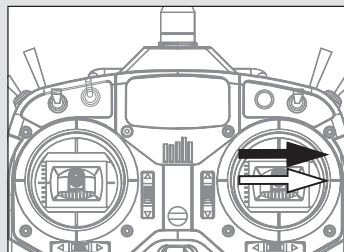
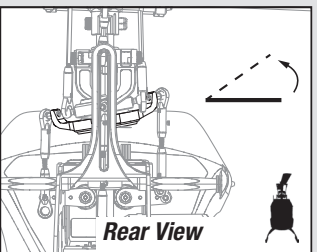
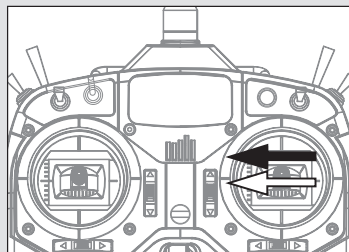
1. Disconnect any two main motor wires from the ESC.
2. Turn the transmitter on and make sure the flight mode is set to normal.

3. Connect the EC3 battery connector to the helicopter's ESC. Do not allow the helicopter to move until the red LED on the gyro is solid.
4. Check the swashplate directions to ensure they are moving in the correct direction. Please refer to the diagrams above for reference.

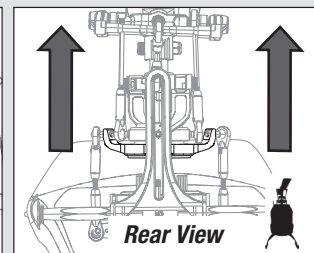
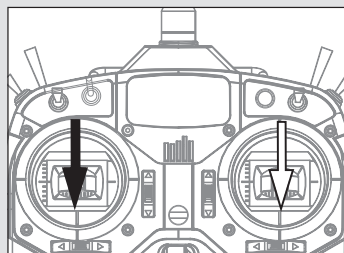
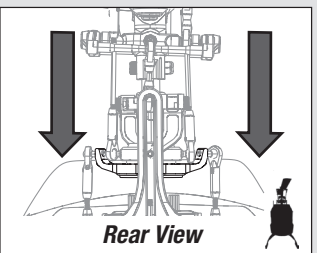
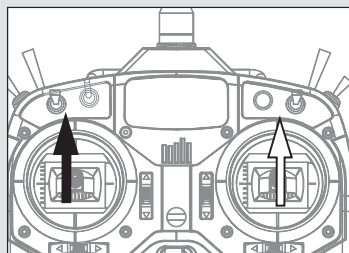
Elevator



Aileron



Collective Pitch



MODE 2 ↑ MODE 1 ↑

Blade Tracking (Blade Helicopters, 450-size and Larger)

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.

Motor Control Test

Place the helicopter on a clean and flat ground surface (concrete or asphalt) outdoors and free of obstructions. Always stay clear of the moving rotor blades. Stay at least 45 feet (13 meters) away from the helicopter when the helicopter is powered on.



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

1. Make sure the transmitter is in normal flight mode and throttle hold is OFF.
2. Move the throttle stick to the idle/low position.



WARNING: The motor, main rotor and tail rotor will spin when the throttle is increased if the TH HOLD switch is not moved to the ON position.

3. Power on the transmitter. Make sure the transmitter battery shows at least 5.0V on the screen (RTF).
4. Connect the main motor wires to the ESC.
5. Turn TH HOLD on.

6. Connect the blue EC3™ battery connector to the ESC. Do not allow the helicopter to move until the red LED on the gyro is solid.
7. The motor emits a series of tones when the ESC arms properly.



CAUTION: Stay at least 45 feet (13 meters) away from the helicopter when the motor is running.



WARNING: Do not attempt to fly the helicopter when testing the motor. Move the Throttle Hold switch to the OFF position.

8. 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 both the main rotor and tail rotor blades are spinning backward, reduce the throttle to idle. Move the throttle hold switch to the ON position. Disconnect the battery from the helicopter and reverse any two motor wire connections to the ESC.

Blade 500 3D Pre-Flight Checklist

- | | |
|--|--|
| <ul style="list-style-type: none"><input type="checkbox"/> Check all screws and ensure that they are tight<input type="checkbox"/> Check belt tension and ensure that it is tight<input type="checkbox"/> Check main and tail blades to ensure they are not damaged<input type="checkbox"/> Check all links and make sure they move freely but do not pop off easily<input type="checkbox"/> Check that the flight battery and transmitter battery are fully charged<input type="checkbox"/> Check all wires to ensure that they are not cut, pinched, or chaffing and are properly secured | <ul style="list-style-type: none"><input type="checkbox"/> Check all wire connections<input type="checkbox"/> Check the gears and make sure no teeth are missing<input type="checkbox"/> Do a complete control check and ensure control fidelity and servos are functioning properly<input type="checkbox"/> Check to make sure the flight battery is properly secured<input type="checkbox"/> Check to make sure the receiver is properly secured |
|--|--|

Choosing a Flying Location

Select a large, open area outside away from people and objects. Never attempt to fly the Blade 500 3D helicopter indoors.

Always consult local laws and ordinances before choosing a location to fly your aircraft. Always stay at least 45 feet (13 meters) away from the helicopter when it is flying.



CAUTION: Ensure you fully understand the controls on your transmitter and how they affect the movement of the helicopter before your first flight.

Flying the Blade 500 3D

While attempting to establish a low-level hover, you can also check to see if any trim adjustments are required to help keep the Blade 500 3D from constantly drifting in various directions. If you find the aircraft constantly drifts without any directional control input, land the model before making any adjustments to the trim settings.

- If the helicopter drifts forward or backward, adjust the elevator trim.
- If the helicopter drifts to the left or right, adjust the aileron trim.

Continue making trim adjustments until the helicopter hovers at a low altitude with very little drifting and directional control input.

When the helicopter is in stunt mode:

- The rotor head speed is constant and high.
- 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 normal and stunt modes with the throttle near the hover stick position.

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

Gyro Gain Adjustment

- If the tail wags or oscillates, lower the gain on the gyro.
On your transmitter, 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.

Pirouette speed adjustment

- To increase or decrease the pirouette rate of the helicopter, adjust the Travel Adjust or Dual Rates values on the rudder channel. Refer to your transmitter's instruction manual.



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

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 40 feet (13 meters) away when the battery is connected.
 - Always turn on throttle hold [TH HLD] if the blades strike anything.
 - Always use fully charged batteries.
 - Always keep transmitter powered on when the battery is connected.
 - Always keep moving parts clean.
 - Always avoid flying in inclement weather such as rain.
- Always let parts cool after use before touching.
 - Always remove batteries after use and before disassembly.
 - Always have a first aid kit and appropriate fire extinguisher with you.
 - Never operate aircraft with damaged wiring.
 - Never touch moving parts.

 **WARNING:** Always use Horizon approved carbon fiber Main Rotor Blades with the Blade 500 3D to avoid injury and/or property damage.

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 is away from the helicopter frame edges and any moving parts. Replace damaged wiring and loose connections.
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.

Maintenance check list

After every flight

- ☐ Check all screws to make sure that they are still tight.
- ☐ Check to make sure no wire connections have begun to loosen.

After every 5 flights

- ☐ Check all screws to make sure that they are still tight using the proper tools.
- ☐ Check to make sure no wires are chaffing.

After every 20 flights

- ☐ Check bearings to make sure they are still smooth.
- ☐ Check gyro tape and ESC tape to make sure they are still good.
- ☐ Check dampers and ensure they are not too soft, replace if necessary.
- ☐ Check belt tension, adjust if necessary.

After every 50 flights

- ☐ Check links and ensure that they do not pop off the balls too easy, replace if necessary.
- ☐ Inspect belt and ensure it is not fraying and that no teeth are missing.

Blade 500 3D Post-Crash Check List

- ☐ Inspect and identify all damaged parts
- ☐ Replace all damaged parts
- ☐ Use threadlock on all metal to metal connections.
- ☐ Firmly tighten the spindle bolts after repairs.
- ☐ Tighten the upper and lower main shaft bolts through the nylon in the locknut.
- ☐ Make sure the main blade and tail rotor blade directions are correct.
- ☐ Tighten the main blade bolts through the nylon in the locknut.
- ☐ Thread the flybar paddles all the way on to the flybar.
- ☐ Tighten the flybar weight setscrews.

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).

FCC Information

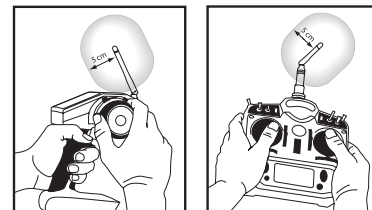
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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

Antenna Separation Distance

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



Compliance Information for the European Union

AT	BE	BG	CZ	CY	DE	DK
ES	FI	FR	GR	HU	IE	IT
LT	LU	LV	MT	NL	PL	PT
RO	SE	SI	SK	UK		

Declaration of Conformity

(in accordance with ISO/IEC 17050-1)

No. HH2012041901



Product(s): Blade 500 3D RTF
Item Number(s): BLH1800 Blade 500 3D RTF
(includes Spektrum DX6i Transmitter
with Spektrum AR6210 Receiver)
BLH1800M1 Blade 500 3D RTF Mode 1
(includes Spektrum DX6i Transmitter with Spektrum AR6210
Receiver)

Equipment class: 2

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 300-328 V1.7.1
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, 2011

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

Declaration of Conformity

(in accordance with ISO/IEC 17050-1)

No. HH2012041902



Product(s): Blade 500 3D BNF Basic
Item Number(s): BLH1850 Blade 500 3D BNF Basic
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 and EMC Directive 2004/108/EC:

EN 301 489-1 V1.7.1: 2006
EN 301 489-17 V1.3.2: 2008

EN55022: 2010
EN55024: 2010

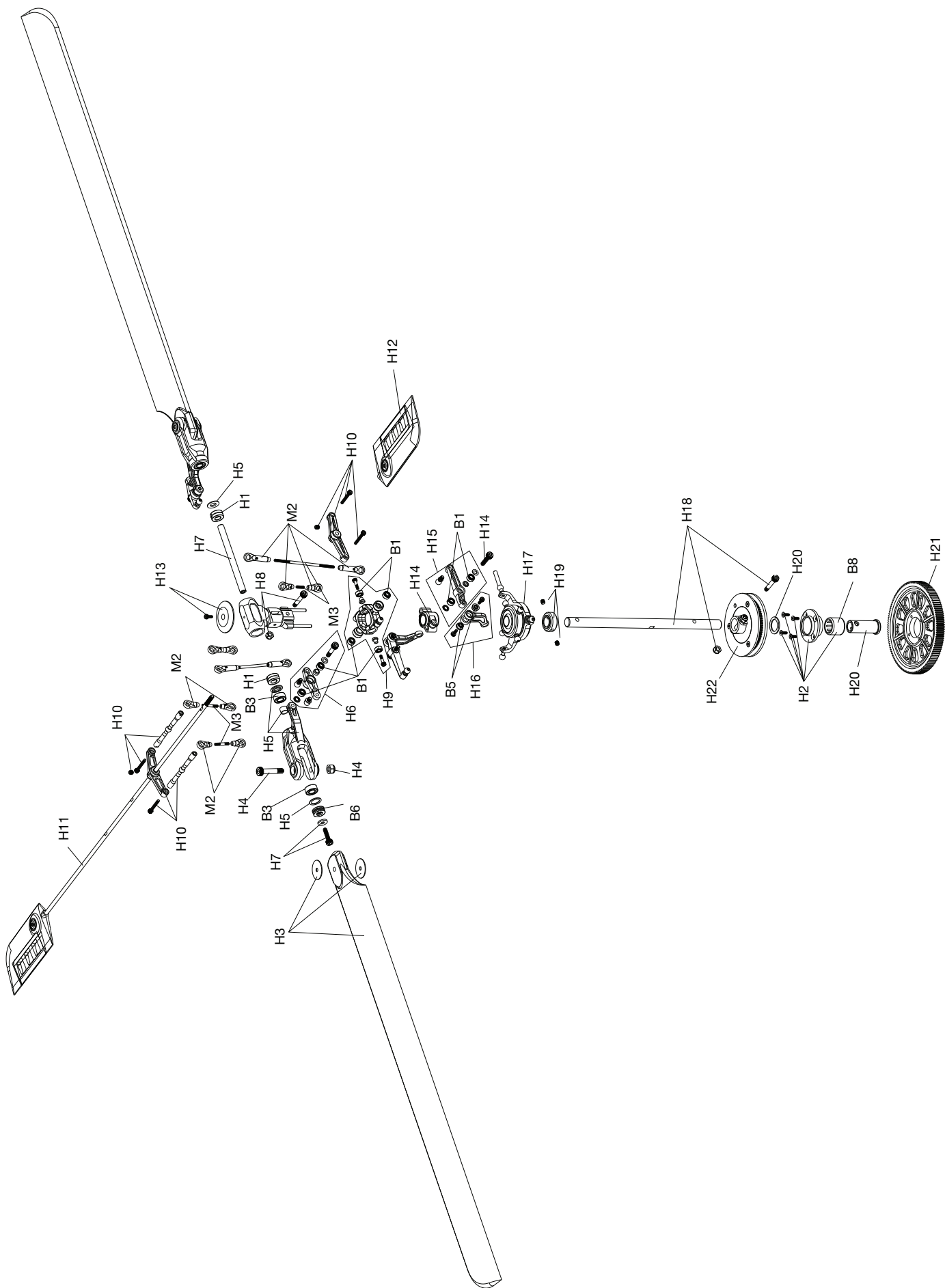
Signed for and on behalf of:
Horizon Hobby, Inc.
Champaign, IL USA
April 19, 2012

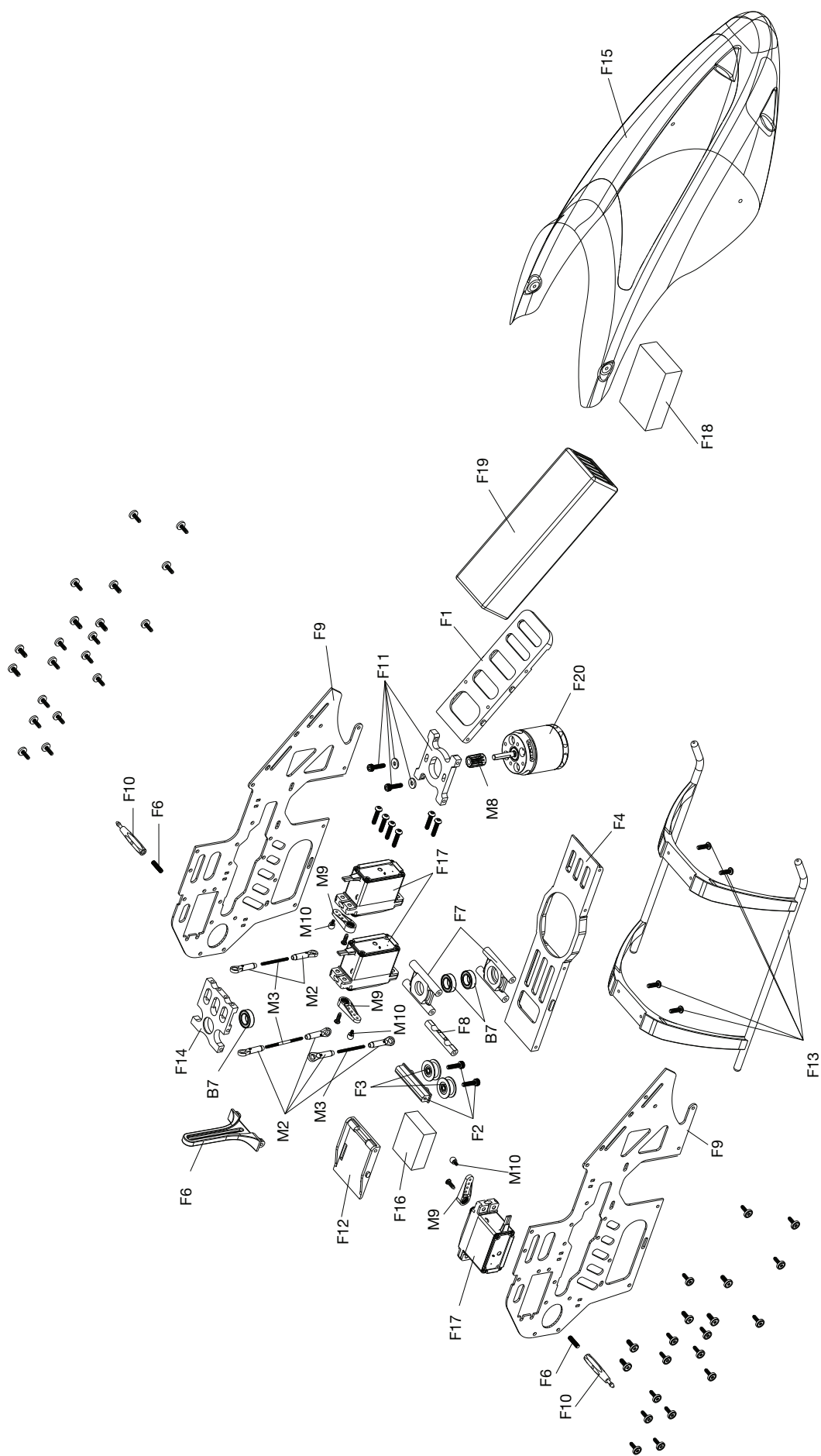
Steven A. Hall
Vice President
International Operations and
Risk Management
Horizon Hobby, Inc.

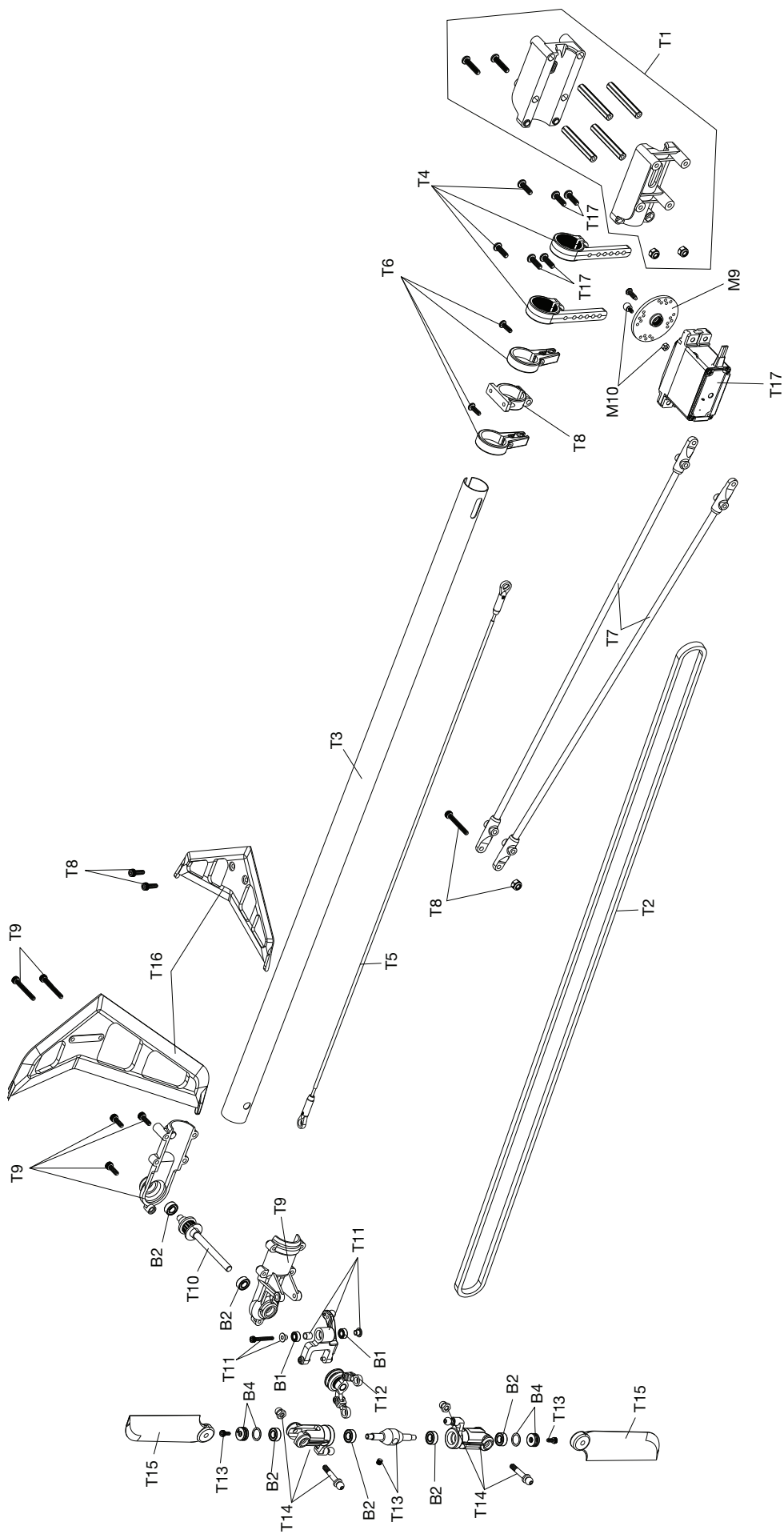
Instructions for disposal of WEEE by users in the European Union



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 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.







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

#	Part #	English	Deutsch	Français	Italiano
H1	BLH1802	80 Degree Dampers (4): B500 3D/X	Blade 80° Dämpfer (4): B500 3D/X	Amortisseurs 80 degrés (4) : B500 3D/X	80 Smorzatori angolari (4): B500 3D/X
H2	BLH1803	One-Way Bearing Hub with One way bearing: B500 3D/X	Blade Freilauf: B500 3D/X	Moyeu de roue libre/roue libre : B500 3D/X	Mozzo ingranaggio di autorotazione con ingranaggio di autorotazione: B500 3D/X
H3	BLH1815	CF FB Main Blade Set 425mm with washers: B500 3D	Blade Carbon Hauptrotorblätter Set 425mm m. Unterlegscheiben: B500 3D	Set de pales principales 425 mm CF FB avec rondelles : B500 3D	Set pale principali CF FBL 425mm con rondelle: B500 3D
H4	BLH1816	Main Rotor Blade Mounting Screw & Nut set (2): B500 3D/X	Blade Hauptrotorblätterschrauben u. Mut-tern Set (2): B500 3D/X	Set de vis & écrous pour pales princi-pales (2) : B500 3D/X	Set viti e dadi di fissaggio pala rotore principale (2): B500 3D/X
H5	BLH1817	Main Rotor Grip Set: B500 3D	Blade Blatthalter Set: B500 3D	Set de pieds de pales principales : B500 3D	Set stringi pale del rotore principale: B500 3D
H6	BLH1818	Bell Hiller Mixer Arm Set: B500 3D	Blade Bell Mischerarm Set : B500 3D	Set de bras de mixage de barre de Bell : B500 3D	Set braccio mixer Bell Hiller: B500 3D
H7	BLH1821	Spindle Set (2): B500 3D/X	Blade Spindle Set (2): B500 3D/X	Jeu de broches (2) : B500 3D/X	Set perno (2): B500 3D/X
H8	BLH1822	Head Block/Rotor Housing Set: B500 3D	Blade Rotorkopf Set: B500 3D	Set de moyeu de tête rotor : B500 3D	Set blocco di testa/alloggiamento del rotore: B500 3D
H9	BLH1823	Flybar Seesaw Holder Set with bear-ings: B500 3D	Blade Paddelstangenhalter mit Lager Set: B500 3D	Étrier de barre de Bell avec roule-ments : B500 3D	Set fissaggio bilanciare flybar con cusci-netti: B500 3D
H10	BLH1824	Flybar Paddle Control Frame set: B500 3D	Blade Paddelstangenanlenkungset: B500 3D	Set de palonnier de barre de Bell : B500 3D	Set rinvio del palino: B500 3D
H11	BLH1825	Flybar (2): B500 3D	Blade Paddelstange (2): B500 3D	Barre de Bell (2) : B500 3D	Flybar (2): B500 3D
H12	BLH1828	Flybar Paddle Set: B500 3D	Blade Paddel Set: B500 3D	Set de palettes de Bell : B500 3D	Set del palino flybar: B500 3D
H13	BLH1829	Head Button Set: B500 3D/X	Blade Rotorkopfabdeckungset : B500 3D/X	Set à tête hémisphérique : B500 3D/X	Set pulsante di testa: B500 3D/X
H14	BLH1830	Washout Base: B500 3D	Blade Pitchmitnehmer Zentralstück : B500 3D	Partie basse de washout : B500 3D	Base wash-out: B500 3D
H15	BLH1831	Washout Control Arm: B500 3D	Blade Pitchmitnehmer Arm u. Verbinderset: B500 3D	Bras de commande de washout : B500 3D	Braccio di controllo wash-out: B500 3D
H16	BLH1832	Washout control Arm Link Set: B500 3D/X	Blade Pitchkompensator Verbinderstücke: B500 3D	Set de commande de bras de com-mande de washout : B500 3D/X	Set collegamento braccio di controllo washout: B500 3D/X
H17	BLH1833	Aluminum Swashplate: B500 3D/X	Blade Aluminium Taumelscheibe : B500 3D/X	Plateau cyclique en aluminium : B500 3D/X	Piatto ciclico in alluminio: B500 3D/X
H18	BLH1847	Main Shaft (2): B500 3D	Blade Rotorwelle (2): B500 3D	Axe principal (2) : B500 3D	Albero principale (2): B500 3D
H19	BLH1848	Mainshaft Retaining Collar: B500 3D/X	Blade Stelling Rotorwelle : B500 3D/X	Bagues de maintien arbre principal : B500 3D/X	Collare di ritenuta albero principale: B500 3D/X
H20	BLH1849	One-Way Bearing Shaft and Shim Set: B500 3D/X	Blade Freilauf mit Unterlegscheibe Set: B500 3D/X	Set de roulement et de joints B500 3D/X	Set albero ingranaggio di autorotazione e spessore: B500 3D/X
H21	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
H22	BLH1853	Belt Drive Pulley: B500 3D/X	Blade Spannrolle Riemen : B500 3D/X	Poulie d'entraînement de la courroie : B500 3D/X	Puleggia azionamento cinghia: B500 3D/X

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

#	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 roule-ments (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

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

#	Part #	English	Deutsch	Français	Italiano
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 Kabinenhaubenhälter : B500 3D/X	Supports de bulle : B500 3D/X	Montanti calottina: B500 3D/X
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	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 bianco carrello di atterraggio: 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	BLH1881	Hot Rod Canopy: B500 3D	Blade Kabinenhaube : B500 3D	Bulle « Hot Rod » B500 3D	Calottina asta: B500 3D
F16	SPMAR6210	AR6210 6-Channel DSMX Receiver	Spektrum AR6210 6 Kanal DSMX Empfänger	Récepteur DSMX à 6 voies AR6210	Ricevitore a 6 canali DSMX AR6210
F17	SPMS300	S300 Digital Cyclic Servo	Spektrum S300 Austausch Blade 500 Taumelscheiben Servo	Servo de cyclique numérique S300	S300 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 / Explosionszeichnung 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 Schiebehülse 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	BLH1872	Stabilizer Fin Set White: B500 3D/X	Blade Leitwerksfinnenset weiss : B500 3D/X	Set de stabilisateur/dérive, blanc : B500 3D/X	Set deriva di stabilizzazione bianca: B500 3D/X
T17	SPMS400G	S400G High-Speed Digital Tail Servo	Spektrum S400G Austausch Blade 500 Kreisel Servo	Servo numérique d'anticouple grande vitesse S400G	S400G 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	BLH1875	12T Pinion, 0.6M: B500 3D/X	Blade Aluminium Servoarme : B500 3D/X	Pignon 12T 0,6M : B500 3D/X	12T pignone, 0.6M: 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
BLH1813	13T Pinion, 0.6M: B500 3D/X	Blade 13T Ritzel 0,6M : B500 3D/X	Pignon 13T 0,6M : B500 3D/X	13T pignone, 0.6M: B500 3D/X
BLH1817A	Aluminum Main Rotor Grips: B500 3D/X	Blade Aluminium Blatthalter : B500 3D/X	Pieds de pales principales en aluminium : B500 3D/X	Serraggio pale rotore principale: B500 3D/X
BLH1818A	Aluminum Bell Mixer Set: B500 3D	Blade Aluminium Blatthalter : B500 3D/X	Set de bras de mixage Bell en aluminium : B500 3D	Set mixer campana alluminio: B500 3D
BLH1823A	Aluminum Seesaw Set: B500 3D	Blade Aluminium Paddelstangenhalter mit Lager Set: B500 3D	Set de moyeu de barre de Bell en aluminium : B500 3D	Set bilanciere alluminio: B500 3D
BLH1824A	Aluminum Flybar Paddle Control Frame Arm Set: B500 3D	Blade Paddelstangenanlenkungset : B500 3D	Set de bras de commande de barre de Bell en aluminium : B500 3D	Set rinvio del palino in alluminio: B500 3D
BLH 1828GR	Flybar Paddle Set, Green: B500 3D	Blade B500 3D: Paddelset Grün	Set de palettes de barre de Bell, vert : B500 3D	Set del palino flybar, verde: B500 3D
BLH 1828OR	Flybar Paddle Set, Orange: B500 3D	Blade B500 3D: Paddelset Orange	Set de palettes de barre de Bell, orange : B500 3D	Set del palino flybar, arancione: B500 3D
BLH 1828YE	Flybar Paddle Set, Yellow: B500 3D	Blade B500 3D: Paddelset Gelb	Set de palettes de barre de Bell, jaune : B500 3D	Set del palino flybar, giallo: B500 3D
BLH1830A	Aluminum Washout Base: B500 3D	Blade Aluminium Pitchmitnehmer Zentralstück : B500 3D	Partie basse de washout en aluminium : B500 3D	Base wash-out alluminio: B500 3D
BLH1831A	Aluminum Washout Mixing Arms: B500 3D	Blade Aluminium Pitchmitnehmer Arm u. Verbinderset: B500 3D	Bras de mixage de washout en aluminium : B500 3D	Bracci di mixing washout alluminio: B500 3D
BLH1834A	Aluminum Anti-Rotation Bracket: B500 3D/X	Blade Aluminium 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 Aluminium unteres Lagerhalterset Set: B500 3D/X	Blocs à billes en aluminium : B500 3D/X	Blocchi cuscinetto il alluminio: B500 3D/X

Optional Parts / Optionale Bauteile / Pièces optionnelles / Pezzi opzionali

Part #	English	Deutsch	Français	Italiano
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
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
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
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/Aluminium 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 Aluminium 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 AluminiumTail 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	Lever 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 Leitwerksfinnenset 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 Finnenset : 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
BLH1881A	Crystal Blue Canopy: B500 3D	Blade Crystal Blue Haube: B500 3D	Bulle Crystal Blue : B500 3D	Calottina Crystal Blue: B500 3D
BLH 1881FG	Fiberglass canopy: B500 3D	Blade GFK Haube : B500 3D	Bulle en fibre de verre : B500 3D	Calottina in fibra di vetro: B500 3D
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
SPMAR 7200BX	Spektrum AR7200BX	Spektrum AR7200BX	Spektrum AR7200BX	Spektrum AR7200BX
BLH4015	CF FBL Main Blade Set w/ Washers:B500X	Blade Carbon Hauptrotorblätter m. Unterlegscheibe : B500 X	Set de pales principales CF FB avec rondelles : B500X	CF FBL set pale principali con rondelle: B500X
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
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
	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 7, 391, 320. Other patents pending.

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