

Timber[®] X 1.2m

Instruction Manual Bedienungsanleitung Manuel d'utilisation Manuale di Istruzioni



Bind-N-Fly® Plug-N-Play®

NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC. For up-to-date product literature, visit www.horizonhobby.com or www.towerhobbies.com and click on the support or resources 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: <u>WARNING</u>: Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury.

<u>CAUTION</u>: Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury. **NOTICE**: Procedures, which if not properly followed, create a possibility of physical property damage AND little or no possibility of injury.

MARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury.

This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not use with incompatible components or alter this product in any way outside of the instructions provided by Horizon Hobby, LLC. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

AGE RECOMMENDATION: Not for children under 14 years. This is not a toy.

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

Safety Precautions and Warnings

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

- Always keep a safe distance in all directions around your model to avoid collisions or injury. This model is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
- Always operate your model in open spaces away from full-size vehicles, traffic and people.
- Always carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.).
- Always keep all chemicals, small parts and anything electrical out of the reach of children.
- Always avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture causes damage to electronics.
- Never place any portion of the model in your mouth as it could cause serious injury or even death.

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

Box Contents

Q	Quick Start Information				
Transmitter Setup	Set up your transmitter using the transmitter setup chart				
		Hi Rate	Low Rate		
	Ail	33mm 33mm	25mm 25mm		
Dual Rates	Ele	22mm	16mm		
	Rud	30mm	20mm		
	Flaps	Full 35mm	Half 20mm		
Center of Gravity (CG)	82mm-92mm back from leading edge of wing at the fuselage.				
Flight Timer Setting	4 minutes				

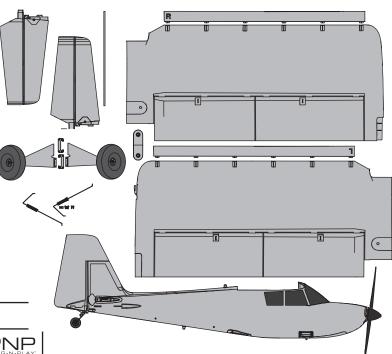
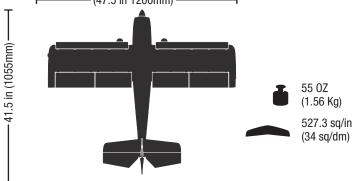


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Specifications

	Motor: 10BL Brushless outrunner 900Kv (EFLM17553)	Installed	Installed
	ESC: 50 AMP Brushless ESC (EFLA1050)	Installed	Installed
\bowtie	Servo: 9 gram metal geared servo (5 x SPMSA332) (1 x SPMSA332R)	Installed	Installed
୬ . ■	Receiver: Spektrum [™] AR631 6-Channel Sport Receiver (SPMAR631)	Installed	Required to Complete
	Recommended Battery: 11.1V–14.8V 3S–4S 2200mAh 50C Li-Po (SPMX22003S50 or SPMX22004S50)	Required to Complete	Required to Complete
B	Recommended Battery Charger: 3 or 4-cell Li-Po battery balancing charger	Required to Complete	Required to Complete
<u>–</u>	Recommended Transmitter: Full-Range 6 channel 2.4GHz with Spektrum DSMX [®] technology with adjustable Dual Rates.	Required to Complete	Required to Complete
T ⊢	(47.5 in 1200mm)	4	



If you own this product, you may be required to register with the FAA.

For up-to-date information on how to register with the FAA, visit https:// registermyuas.faa.gov/.

For additional assistance on regulations and guidance on UAS usage, visit knowbeforeyoufly.org/.

To register your product online, visit www.e-fliterc.com

SAFE® Select Technology (BNF Basic)

The evolutionary SAFE[®] Select technology can offer an extra level of protection so you can perform the first flight with confidence. No complex transmitter programming is required. Just follow the simple bind process to make the SAFE Select system active. When activated, bank and pitch limitations keep you from over-controlling and automatic self-leveling makes recovery from risky or confusing attitudes as simple as releasing the sticks. In fact, with the aileron, elevator and rudder sticks in the neutral position, SAFE Select will automatically keep the airplane in a straight and level attitude.

Expand the advantage of what SAFE[®] Select technology offers by assigning it to a switch. No transmitter programming is required and you'll be able to turn the system ON and OFF with the flip of a switch. For example, turn SAFE select ON for takeoffs to counter the torque of the propeller. Turn it OFF in flight for unrestricted aerobatic performance, and turn it back ON when a buddy wants to try out your cool aircraft. Turn SAFE Select ON for landings. As you drop the flaps, SAFE Select reduces your workload by compensating for pitch changes automatically, regardless of throttle position. It will help keep the correct pitch attitude and wings level during the final approach. Whether you're a beginner or an expert, SAFE Select can make your flights a great experience.

When the normal bind process is followed, the SAFE Select system is disabled, leaving specially tuned AS3X[®] technology in place to deliver a pure, unrestricted flight experience.

Preflight

- 1. Remove and inspect contents.
- 2. Read this instruction manual thoroughly.
- 3. Charge the flight battery.
- 4. Setup Transmitter using transmitter setup chart.
- 5. Fully assemble the airplane.
- 6. Install the flight battery in the aircraft (once it has been fully charged).
- 7. Check the Center of Gravity (CG).
- 8. Bind the aircraft to your transmitter.

Transmitter Setup (BNF Basic)

IMPORTANT: After you set up your model, always rebind the transmitter and receiver to set the desired failsafe positions.

Dual Rates

Take first flights in Low Rate. For landings, use high rate elevator.

NOTICE: To ensure AS3X[®] technology functions properly, do not lower rate values below 50%. If lower rates are desired, manually adjust the position of the pushrods on the servo arm.

NOTICE: If oscillation occurs at high speed, refer to the Troubleshooting Guide for more information.

Ехро

After first flights, you may adjust expo in your transmitter.

To expand the aerobatic capability of the Timber X, the flaps can be configured to move with the ailerons for full span ailerons. To keep the SAFE Select functionality with full span ailerons, a 7 channel or more transmitter is required. See the BNF advanced receiver setup page later in this manual for details.

[†] Some of the terminology and function locations used in the iX12 and iX20 programming may be slightly different than other Spektrum AirWare[™] radios. The names given in parenthesis correspond to the iX12 and iX20 programming terminology. Consult your transmitter manual for specific information about programming your transmitter.

* Flap programming values may vary slightly. For your initial flights use the recommended flap travel settings provided in the Flaps section and adjust the flap travel to your preference on subsequent flights.

9. Make sure linkages move freely.
10. Test the flap operation.
11. Perform the Control Direction Test with the transmitter.
12. Perform the AS3X Control Direction Test with the aircraft.
13. Adjust flight controls and transmitter.
14. Perform a radio system Range Test.
15. Find a safe open area to fly.
16. Plan flight for flying field conditions.

Computerized Transmitter Setup			
Start all transmitter programming with a blank ACRO model (perform a model reset), then name the model.			
Set Dual Rates	s to	HIGH 100%	
Set Servo Trav	el to	100%	
Set Throttle Cu		-130%	
DXe	Refer to spel	ktrumrc.com for the appropri	ate download setup.
DX6i	1. Go to the SETUP LIST MENU 2. Set MODEL TYPE: ACRO 3. Go to ADJUST LIST MENU 4. Set FLAPS: Norm ⊙0 Flap Elev 0 LAND ●100 Flap Elev 20		
DX7S DX8	1. Go to the SYSTEM SETUP 2. Set MODEL TYPE: AIRPLANE 3. Set WING TYPE: 1 AIL 1 FLAP 4. Go to the FUNCTION LIST 5. Set FLAP SYSTEM: Choose Flap NORM: -0% FLAP MID: 50% FLAP 14% Elevator LAND: 100% FLAP 20% Elevator SPEED 2.0S: SWITCH = FLAP		
DX6e, DX8e DX6, DX7, DX8 (Gen2) DX9 DX10t DX18 DX20 iX12, iX20 NX6, NX10	2. Set MODE 3. Set AIRCR. W 4. Go to the F 5. Set FLAP S SI P(P(P(SYSTEM SETUP (Model Utilities L TYPE: AIRPLANE AFT TYPE (Model Setup, Aircraff ING: 1 AIL 1 FLAP FUNCTION LIST (Model Adjust) ¹ SYSTEM: ELECT SWITCH D: DS 0: 0% FLAP* DS 1: 50% FLAP* DS 2: 100% FLAP* PEED 2.0	t Type)†:

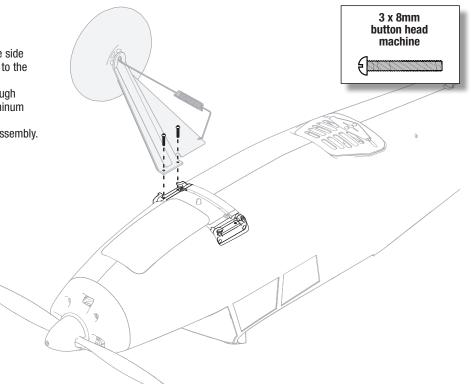
Timber X 1.2m

Model Assembly

Landing Gear Installation

Mount the Landing Gear to the Fuselage

- 1. Insert one landing gear assembly into the pocket on the side of the fuselage as shown. The landing gear legs mount to the aluminum block which can pivot in the pocket.
- 2. Thread the included 3mm x 8mm machine screws through the landing gear leg into the threaded holes in the aluminum pivot block.
- 3. Repeat the process to install the second landing gear assembly.

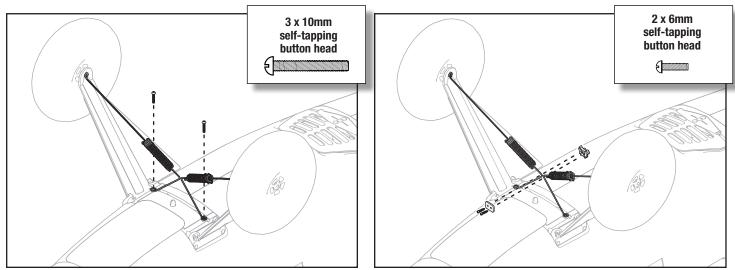


Mount the Spring Assemblies to the Fuselage

- 1. Align the spring assemblies with the mounting holes in the fuselage. These assemblies mount to the plastic bracket pre-installed in the fuselage between the landing gear.
- 2. Install the two 3 x 10mm self tapping screws to anchor the spring assemblies in place.

Clamp the Spring Assemblies Together

- 1. Align the spring assemblies with the joiner bracket
- 2. Clamp the assembly together with the two 2x6mm self tapping screws.



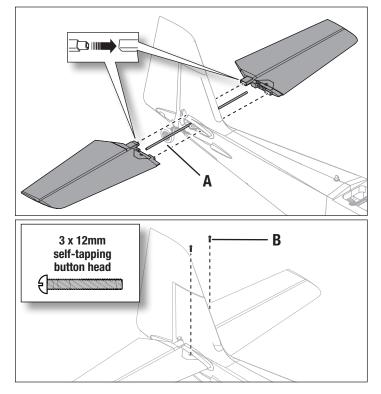
Model Assembly Continued

Lightweight and Heavy Stabilizer Joiners

The Timber X includes two stabilizer joiners; a lightweight composite joiner, and a heavier steel joiner. For tame flying and maximum stability in general flight use the lightweight joiner to keep the CG at the front of the recommended CG range. For maximum performance and stability in high alpha maneuvers, use the steel joiner to shift the CG to the rear of the recommended CG range.

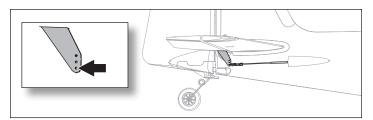
Horizontal Tail Installation

- 1. Slide the horizontal stabilizer joiner (A) into the hole in the rear of the fuselage.
- 2. Install the two piece (left and right) horizontal stabilizer as shown. Ensure the control horn faces down.
- 3. Secure the horizontal stabilizer pieces in place using the two included 3 x 12 mm self tapping screws (B).
- 4. Attach the pushrod keeper to the elevator control horn.



Pushrod Keeper Installation

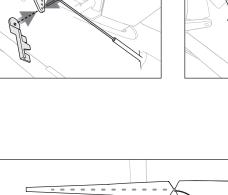
- 1. Insert the end of the pushrod with the 90° bend into the control horn and Insert the pushrod into the hole in the pushrod keeper.
- 2. Rotate the pushrod keeper and press into place on the pushrod until it clicks into position.

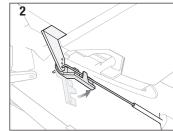


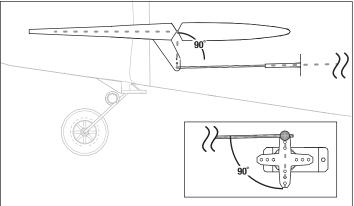
Control Surface Centering

After assembly transmitter setup and binding, confirm that the control surfaces are centered. If the control surfaces are not centered, mechanically center the control surfaces before flying.

- 1. Set the trims and sub-trims to 0
- 2. If they are not centered, loosen the screw in the quick connector linkage on the servo horn.
- 3. Slide the pushrod in the quick connector to change the length of the linkage between the servo arm and the control horn so the control surface is centered.
- 4. Apply thread lock compound to the screw threads and tighten the screw to secure the pushrod at the desired length.





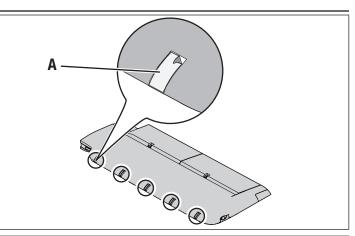


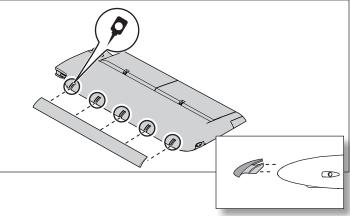
Model Assembly Continued

Slat Installation (Optional)



- 1. Carefully remove all the foam slat pocket covers (A) from the wing.
- When the pocket is exposed, carefully apply medium CA to each slat pocket.
 Mount the slat onto the wing with the rounded edge facing forward. Ensure that the left and right slats are on the correct wing half. The slat and wing halves are labeled with "L" and "R" indicators.





Wing Assembly

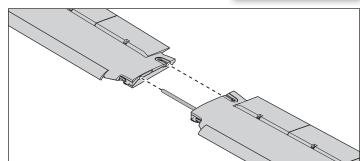
- 1. Insert the wing joiner tube and slide the left and right wing halves together, as shown.
- 2. Secure the wing together using the wing bracket (A).
- 3. Guide the flaps, lights and aileron servo connectors $({\bf B})$ into the top of the fuselage as shown.
- Tip: If needed, use hemostats or pliers to pull the servo connectors into the fuselage.
- Connect the flaps, and aileron connectors to respective Y-harnesses connected to the receiver. The left and right servos can be connected to either side of a Y-harness.

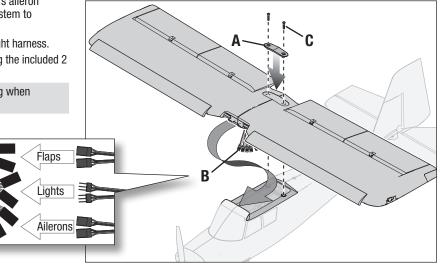
IMPORTANT: The ailerons must be connected to the receiver's aileron port (channel 2) with a Y-harness (included) for the AS3X[®] system to function properly.

- 5. Connect the two light connectors (with exposed pins) to the light harness.
- 6. Align the wing with the fuselage and secure into position using the included 2 nylon wing bolts (C).

CAUTION: DO NOT crush or otherwise damage the wiring when attaching the wing to the fuselage.

Disassemble in reverse order.





Transmitter and Receiver Binding / Switching ON and OFF SAFE Select (BNF Basic)

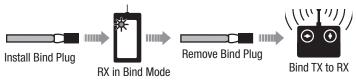
This product requires an approved Spektrum[™] DSM2[®]/DSMX[®] compatible transmitter. Visit www.bindnfly.com for a complete list of approved transmitters.

The aircraft has an optional SAFE Select feature, which can be switched ON or OFF easily by binding in a specific manner as described below.

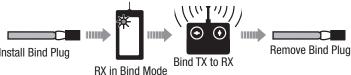
IMPORTANT: Before binding a transmitter, read the Transmitter Setup section of this manual to ensure that your transmitter is properly programmed for this aircraft.

Bind Plug Installation	Switching OFF
	Install Bind Plug
Binding Procedure / Switching ON SAFE Select	Binding Procedure
IMPORTANT: The included AR631 receiver has been programmed for operation specifically for this aircraft. Refer to the receiver manual for correct setup if the receiver is replaced or is used in another aircraft.	IMPORTANT: The included operation specifically for t correct setup if the received
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.	CAUTION: When usi module, you must r Spektrum module manual t Futaba transmitter manual
1. Make sure the transmitter is powered off.	1. Make sure the transm
2. Move the transmitter controls to neutral (flight controls: rudder, elevators and ailerons) or to low positions (throttle, throttle trim).*	2. Move the transmitter of and ailerons) or to low
3. Install a bind plug in the receiver bind port.	3. Install a bind plug in th
4. Place the aircraft level on its wheels, then connect the flight battery to the ESC. The ESC will produce a series of sounds. Three flat tones followed immediately by two ascending tones confirm that the LVC is set correctly for the ESC. The orange bind LED on the receiver will begin to flash rapidly.	4. Place the aircraft level to the ESC. The ESC w followed immediately correctly for the ESC.
5. Remove the bind plug from the bind port.	The orange bind LED NOT remove the bind
6. Take three steps away from the aircraft /receiver and then power ON the transmitter while holding the transmitter bind button or switch. Refer to your transmitter's manual for specific binding instructions.	 Take three steps away transmitter while hold your transmitter's mar
IMPORTANT: Do not point the transmitter's antenna directly at the receiver while binding.	IMPORTANT: Do not p receiver while binding
IMPORTANT: Keep away from large metal objects while binding.	IMPORTANT: Keep aw
7. The receiver is bound to the transmitter when the orange bind light on the receiver stays orange. The ESC will produce a series of sounds. Three flat tones followed immediately by two ascending tones. The tones indicate the ESC is armed, provided the throttle stick and throttle trim are low enough to trigger arming.	6. The receiver is bound to t stays orange. The ESC wi immediately by two asce provided the throttle stick
IMPORTANT: Once bound, the receiver will retain its bind settings for that	7. Remove the bind plu
transmitter until it has been intentionally changed, even when power is cycled ON and OFF. Repeat the binding process as necessary.	IMPORTANT: Once bound transmitter until it has been been been been been been been bee
SAFE Select ON Indication	cycled ON and OFF. Repea
Every time the receiver is powered ON the surfaces will cycle back and forth twice	SAFE Select OFF Indicati
with a slight pause at neutral position to indicate that SAFE Select is switched ON. The throttle will not arm if the transmitter's throttle control is not put at the	Every time the receiver is once to indicate that SAF
lowest position. If problems are encountered, follow the binding instructions and refer to the transmitter troubleshooting guide for other instructions. If needed, contact the appropriate Horizon Product Support office.	The throttle will not arm if lowest position. If problem and refer to the transmitte

Switching ON SAFE Select Binding Sequence



SAFE Select Binding Sequence



/ Switching OFF SAFE Select

AR631 receiver has been programmed for his aircraft. Refer to the receiver manual for er is replaced or is used in another aircraft.

ng a Futaba® transmitter with a Spektrum DSM everse the throttle channel and rebind. Refer to your or binding and failsafe instructions. Refer to your for instructions on reversing the throttle channel.

- tter is powered off.
- ontrols to neutral (flight controls: rudder, elevators positions (throttle, throttle trim). '
- e receiver bind port.
- on its wheels, then connect the flight battery ill produce a series of sounds. Three flat tones by two ascending tones confirm that the LVC is set

on the receiver will begin to flash rapidly. DO plug at this time.

from the aircraft /receiver and then power ON the ng the transmitter bind button or switch. Refer to ual for specific binding instructions.

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ay from large metal objects while binding.

he transmitter when the orange bind light on the receiver Il produce a series of sounds. Three flat tones followed nding tones. The tones indicate the ESC is armed, and throttle trim are low enough to trigger arming.

g from the bind port.

the receiver will retain its bind settings for that in intentionally changed, even when power is t the binding process as necessary.

on

powered ON the surfaces will cycle back and forth Select has been switched OFF.

the transmitter's throttle control is not put at the s are encountered, follow the binding instructions er troubleshooting guide for other instructions. If needed, contact the appropriate Horizon Product Support office.

*Failsafe

If the receiver loses transmitter communication, the failsafe will activate. When activated, failsafe moves the throttle channel to its preset failsafe position (low throttle) that was set during binding. All other channels move to actively level the aircraft in flight.

Battery Installation and ESC Arming

Battery Selection

The Spektrum 2200mAh 14.4V 4S 50C Li-Po battery (SPMX22004S50) is recommended. The SPMX22003S50 battery may also be used. For maximum performance with 3 cells, a 13X6.5 electric propeller may be utilized. Refer to the Optional Parts List for other recommended batteries. If using a battery other than those listed, the battery should be within the range of capacity, dimensions and weight of the Spektrum Li-Po battery packs to fit in the fuselage. Be sure the model balances at the recommended CG before flying.

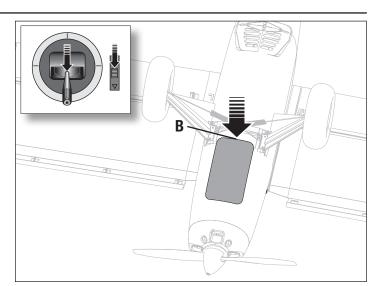


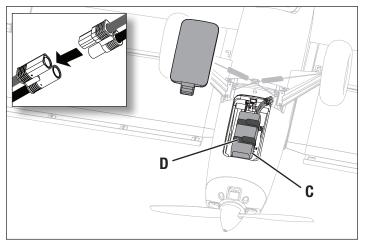
CAUTION: Always keep hands away from the propeller. When armed, the motor will turn the propeller in response to any throttle movement.

- 1. Lower the throttle and throttle trim to the lowest settings. Power on the transmitter, then wait 5 seconds.
- 2. For added security, apply the loop side (soft side) of the optional hook and loop tape (\bf{A}) to the bottom of your battery, and the hook side to the battery tray.
- 3. Press the latch button $({\ensuremath{B}})$ and remove the battery hatch.
- 4. Install the fully charged battery (C) in the center of the battery compartmant as shown. Secure using the hook and loop straps (D).
- 5. Connect the battery to the ESC (the ESC is now armed).
- 6. Keep the aircraft immobile and away from wind or the system will not initialize.
 - The ESC will sound a series of tones (refer to step 6 of the binding instructions for more information).
 - An LED will light on the receiver when it is initialized

If the ESC sounds a continuous double beep after the flight battery is connected, recharge or replace the battery.

7. Reinstall the battery hatch.





SAFE® Select Switch Designation

SAFE[®] Select technology can be easily assigned to any open switch (2 or 3 position) on your transmitter. With this feature, you have the flexibility to enable or disable the technology while in flight.

IMPORTANT: Before assigning your desired switch, ensure that the travel for that channel is set at 100% in both directions and the aileron, elevator, rudder and throttle are all on high rate with the travel at 100%. Turn throttle hold OFF if it is programmed in the transmitter.

CAUTION: Keep all body parts well clear of the propeller and any moving parts and keep the aircraft securely restrained in case of accidental throttle activation.

Assigning a switch

- 1. Bind the aircraft correctly to activate SAFE Select. This will allow the system to be assigned to a switch.
- 2. Hold both transmitter sticks to the inside bottom corners and toggle the desired switch 5 times (1 toggle = full up and down) to assign that switch. The control surfaces of the aircraft will move, indicating the switch has been selected.

Repeat the process to assign a different switch or to deactivate the current switch if desired.

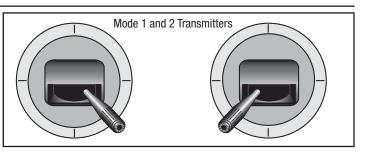
TIP: SAFE Select is assignable on any unused Channels 5–9.

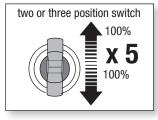
Control Horn and Servo Arm Settings

The table to the right shows the factory settings for the control horns and servo arms. Fly the aircraft at factory settings before making changes.

NOTICE: If control throws are changed from the factory settings, the AR631 gain values may need to be adjusted. Refer to the Spektrum AR631 manual for adjustment of gain values.

After flying, you may choose to adjust the linkage positions for the desired control response. See the table to the right.





Factory Setting	Horns	Arms
Elevator		000000
Rudder		
Aileron	000	
Flaps	000	000000 •••••
Tuning	Horns	Arms
More control throw		
Less control throw		

Center of Gravity (CG)



CAUTION: Install the battery but leave it disconnected while checking the CG. Personal injury may result.

The CG location is measured from the leading edge of the wing at the root. This CG location has been determined with the recommended Li-Po battery (SPMX22004S50).

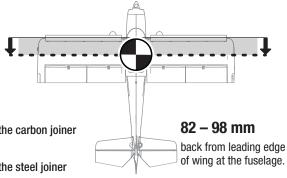
A pocket in the tail provides a space for extra tail weight for pilots wanting to push the 3D capabilities to the limit. Extra tail weight is not included.

(without slats installed)

• 85mm +/- 3mm back from the leading edge with the carbon joiner

OR

• 95mm +/- 3mm back from the leading edge with the steel joiner



AS3X Control Direction Test (BNF Basic)

This test ensures that the AS3X® control system is functioning properly. Assemble the aircraft and bind your transmitter to the receiver before performing this test.

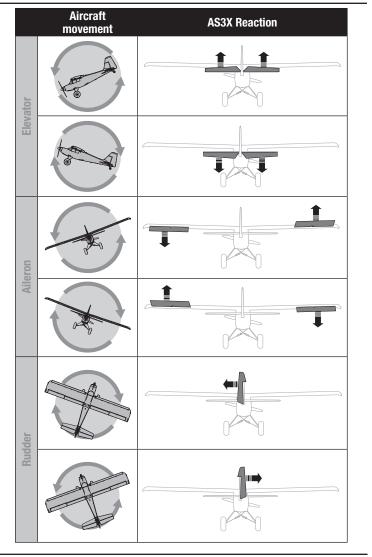
1. Raise the throttle just above 25%, then lower the throttle to activate AS3X technology.



CAUTION: Keep all body parts, hair and loose clothing away from a moving propeller, as these items could become entangled.

2. Move the entire aircraft as shown and ensure the control surfaces move in the direction indicated in the graphic. If the control surfaces do not respond as shown, do not fly the aircraft. Refer to the receiver manual for more information.

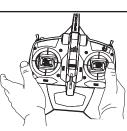
Once the AS3X system is active, control surfaces may move rapidly. This is normal. AS3X remains active until the battery is disconnected.



In Flight Trimming (BNF Basic)

During your first flight, trim the aircraft for level flight at 1/2 throttle with flaps up. Make small trim adjustments with your transmitter's trim switches to straighten the aircraft's flight path.

After adjusting the trim, do not touch the control sticks for 3 seconds. This allows the receiver to learn the correct settings to optimize AS3X performance. Failure to do so could affect flight performance.



3 Seconds

Flying Tips and Repairs

Consult local laws and ordinances before choosing a flying location.

Range Check your Radio System

Before you fly, range check the radio system. Refer to your specific transmitter instruction manual for range test information.

Oscillation

Once the AS3X system is active (after advancing the throttle for the first time), you will normally see the control surfaces react to aircraft movement. In some flight conditions you may see oscillation (the aircraft rocks back and forth on one axis due to overcontrol). If oscillation occurs, refer to the Troubleshooting Guide for more information.

Takeoff

Place the aircraft facing into the wind. Set your transmitter in low rate and use your flaps switch to drop the flaps to takeoff or "half position". Gradually increase the throttle to ¾ and steer with the rudder. **Flaps make takeoffs shorter**. As the plane reaches flying speed, pull back gently on the elevator. When airborne, climb to a comfortable altitude and then flip your flaps switch to level the flaps.

Flying

For your first flights with the recommended battery pack (SPMXBC100), set your transmitter timer or a stopwatch to 5 minutes. After five minutes, land the aircraft. Adjust your timer for longer or shorter flights once you have flown the model. If at any time the motor power reduces, land the aircraft immediately to recharge the flight battery. See the Low Voltage Cutoff (LVC) section for more details on maximizing battery health and run time.

Landing

Land the aircraft into the wind. Use a small amount of throttle for the entire descent. Lower the throttle to ¼ and flip your flaps switch to deploy the flaps to the landing or "full down position". Flaps will make the landing approach steeper and slower, and allow for a smoother landing.

Keep the throttle on until the aircraft is ready to flare. During flare, keep the wings level and the aircraft pointed into the wind. Gently lower the throttle while pulling back on the elevator to bring the aircraft down on its wheels.

If landing on grass, it is best to hold full up elevator after touchdown and when taxiing to prevent the nose from digging in.

Once on the ground, avoid sharp turns until the plane has slowed enough to prevent scraping the wingtips.

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

NOTICE: After any impact, always ensure the receiver is secure in the fuselage. If you replace the receiver, install the new receiver in the same orientation as the original receiver or damage may result.

NOTICE: Crash damage is not covered under warranty.

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

Low Voltage Cutoff (LVC)

When a Li-Po battery is discharged below 3V per cell, it will not hold a charge. The ESC protects the flight battery from over-discharge using Low Voltage Cutoff (LVC). Before the battery charge decreases too much, LVC removes power supplied to the motor. Power to the motor reduces, showing that some battery power is reserved for flight control and safe landing.

Disconnect and remove the Li-Po battery from the aircraft after use to prevent trickle discharge. Charge your Li-Po battery to about half capacity before storage. During storage, make sure the battery charge does not fall below 3V per cell. LVC does not prevent the battery from over-discharge during storage.

NOTICE: Repeated flying to LVC will damage the battery.

Tip: Monitor your aircraft battery's voltage before and after flying by using a Li-Po Cell Voltage Checker (SPMXBC100, sold separately).

Repairs

Thanks to the EPO foam material in this aircraft, repairs to the foam can be made using virtually any adhesive (hot glue, regular CA, epoxy, etc). When parts are not repairable, see the Replacement Parts List for ordering by item number. For a listing of all replacement and optional parts, refer to the list at the end of this manual.

NOTICE: Use of CA accelerant on your aircraft can damage paint. DO NOT handle the aircraft until accelerant fully dries.

SAFE Select Flying

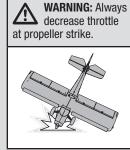
SAFE Select will automatically compensate for pitch up with throttle application and flaps deployed.

NOTICE: If SAFE Select is active, a flap to elevator compensation can be used to minimize pitch up when flaps are deployed. However, do not use throttle to elevator mix to reduce pitch up with flaps deployed as the mix will effect the high and low speed angles with flaps deployed.

For a short takeoff, apply full throttle and hold up elevator until the desired pitch attitude is reached. Continue holding up elevator until the appropriate altitude is reached. Once the elevator stick is returned to center, the aircraft will automatically resume level flight.

Alternatively, apply 1/2 to 3/4 throttle and let the tail come off the ground naturally. Gently apply up elevator and allow the plane to approach the desired altitude.

To land the aircraft, gradually decrease throttle and apply up elevator to adjust your glideslope to the desired landing point. Just before you approach the ground, reduce throttle to zero and flare the aircraft.



PNP Receiver Selection and Installation

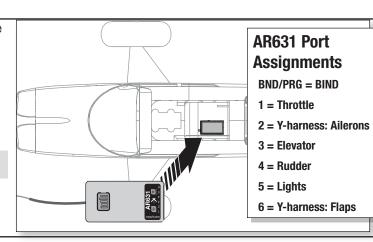
The Spektrum AR631 receiver is recommended for this airplane. If you choose to install another receiver, ensure that it is at least a 5-channel full range (sport) receiver. Refer to your receiver manual for correct installation and operation instructions.

Installation (AR631 shown)

- 1. Remove the canopy from the fuselage.
- 2. Mount the receiver parallel to the length of the fuselage as shown. Use double-sided servo tape.

CAUTION: Incorrect installation of the receiver could cause a crash.

3. Attach the appropriate control surfaces to the their respective ports on the receiver using the chart in the illustration.



6. Store the flight battery apart from the aircraft and monitor the

7. Make note of the flight conditions and flight plan results, planning for

5. Repair or replace all damaged parts.

battery charge.

future flights.

Post Flight

- 1. Disconnect the flight battery from the ESC (Required for Safety and
- battery life).
- 2. Power OFF the transmitter.
- 3. Remove the flight battery from the aircraft.
- 4. Recharge the flight battery.

Motor Service

CAUTION: Always disconnect the flight battery before performing motor service.

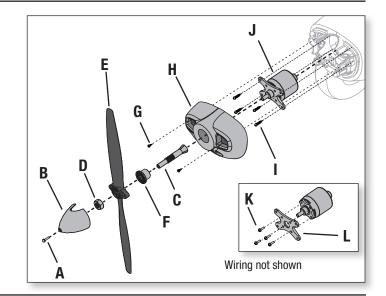
Disassembly

- 1. Remove the spinner screw (A) and spinner (B) from the propeller shaft (C).
- 2. Remove the spinner nut (D) by using an adjustable wrench.
- 3. Remove the propeller (E), back hub (F) and the propeller shaft from the motor shaft.
- 4. Remove 2 screws (G) from inside the front cowling (H) and remove the cowling from the fuselage.
- 5. Remove the 4 screws (I) and the motor (J) with the X-mount from the fuselage.
- 6. Disconnect the motor wires from the ESC wires.
- 7. Remove the 4 screws (K) and motor from the X-mount (L).

Assembly

Assemble in reverse order.

- Correctly align and connect the motor wire colors with the ESC wires.
- Install the propeller with the size numbers (13 x 4) facing out from the motor.
- Tighten the spinner nut to secure the propeller into place.



	<u> </u>		
Problem	Possible Cause	Solution	
	Damaged propeller or spinner	Replace propeller or spinner	
	Imbalanced propeller	Balance the propeller	
	Motor vibration	Replace parts or correctly align all parts and tighten fasteners as needed	
Oscillation	Loose receiver	Align and secure receiver in fuselage	
	Loose aircraft controls	Tighten or otherwise secure parts (servo, arm, linkage, horn and control surface)	
	Worn parts	Replace worn parts (especially propeller, spinner or servo)	
	Irregular servo movement	Replace servo	
	Trim is not at neutral	If you adjust trim more than 8 clicks, adjust the clevis to remove trim	
Inconsistent flight	Sub-Trim is not at neutral	No Sub-Trim is allowed. Adjust the servo linkage	
performance	Aircraft was not kept immobile for 5 seconds after battery connection	With the throttle stick in lowest position. Disconnect battery, then reconnect battery and keep the aircraft still for 5 seconds	
Incorrect response to the AS3X Control Direction Test	Incorrect direction settings in the receiver, which can cause a crash	DO NOT fly. Correct the direction settings (refer to the receiver manual), then fly	

Troubleshooting Guide AS3X

Troubleshooting Guide

Problem	Possible Cause	Solution
Aircraft will not	Throttle not at idle and/or throttle trim too high	Reset controls with throttle stick and throttle trim at lowest setting
Aircraft will not respond to throttle	Throttle servo travel is lower than 100%	Make sure throttle servo travel is 100% or greater
but responds to other	Throttle channel is reversed	Reverse throttle channel on transmitter
controls	Motor disconnected from ESC	Make sure motor is connected to the ESC
	Damaged propeller and spinner, collet or motor	Replace damaged parts
Extra propeller noise or extra vibration	Propeller is out of balance	Balance or replace propeller
	Prop nut is too loose	Tighten the prop nut
	Flight battery charge is low	Completely recharge flight battery
Reduced flight	Propeller installed backwards	Install propeller with numbers facing forward
time or aircraft	Flight battery damaged	Replace flight battery and follow flight battery instructions
underpowered	Flight conditions may be too cold	Make sure battery is warm before use
	Battery capacity too low for flight conditions	Replace battery or use a larger capacity battery
	Transmitter too near aircraft during binding process	Move powered transmitter a few feet from aircraft, disconnect and reconnect flight battery to aircraft
Aircraft will not Bind	Aircraft or transmitter is too close to large metal object, wireless source or another transmitter	Move aircraft and transmitter to another location and attempt binding again
(during binding) to transmitter	The bind plug is not installed correctly in the bind port	Install bind plug in bind port and bind the aircraft to the transmitter
uanomiller	Flight battery/transmitter battery charge is too low	Replace/recharge batteries
	Bind switch or button not held long enough during bind process	Power off transmitter and repeat bind process. Hold transmitter bind button or switch until receiver is bound
	Transmitter too near aircraft during connecting process	Move powered transmitter a few feet from aircraft, disconnect and reconnect flight battery to aircraft
Aircraft will not	Aircraft or transmitter is too close to large metal object, wireless source or another transmitter	Move aircraft and transmitter to another location and attempt connecting again
Aircraft will not connect (after	Bind plug left installed in bind port	Rebind transmitter to the aircraft and remove the bind plug before cycling power
binding) to transmitter	Aircraft bound to different model memory (ModelMatch™ radios only)	Select correct model memory on transmitter
	Flight battery/Transmitter battery charge is too low	Replace/recharge batteries
	Transmitter may have been bound to a different aircraft using different DSM protocol	Bind aircraft to transmitter
	Control surface, control horn, linkage or servo damage	Replace or repair damaged parts and adjust controls
	Wire damaged or connections loose	Do a check of wires and connections, connect or replace as needed
Control surface does not move	Transmitter is not bound correctly or the incorrect airplanes was selected	Re-bind or select correct airplanes in transmitter
	Flight battery charge is low	Fully recharge flight battery
	BEC (Battery Elimination Circuit) of the ESC is damaged	Replace ESC
Controls reversed	Transmitter settings are reversed	Perform the Control Direction Test and adjust the controls on transmitter appropriately
	ESC uses default soft Low Voltage Cutoff (LVC)	Recharge flight battery or replace battery that is no longer performing
Motor power pulses	Weather conditions might be too cold	Postpone flight until weather is warmer
then motor loses	Battery is old, worn out, or damaged	Replace battery
	Battery C rating might be too small	Use recommended battery

BNF advanced receiver setup (optional)

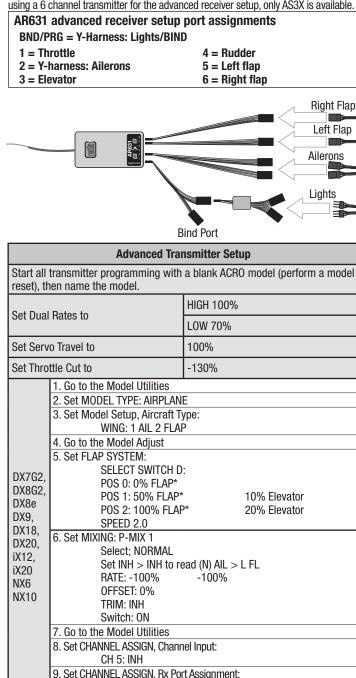
With the basic transmitter setup, the ailerons and flaps will operate separately. For increased aileron authority, the AR631 receiver included in the BNF version may be configured so the flaps can operate as both flaps and ailerons.

Servo Plug Order Change

- 1. Remove the Y-harness plugged into the Ch-6 port on the AR631.
- 2. Insert two servo extensions (EFLREX9L) into the receiver ports; one in Ch-5 and one in Ch-6.
- 3. The left flap plugs into the Ch-5 extension. The right flap plugs into the Ch-6 extension. We recommend labeling the wires to help identify the correct ports when mounting the wing.
- 4. Insert the Y-harness into the BIND port. The lights plug into one side of the Y-harness, and the other side serves as a BIND port.

CAUTION: Connecting servos to the wrong port on the receiver could cause a crash.

IMPORTANT: A 7-channel or higher transmitter is required for the advanced BNF receiver setup plus the ability to select between AS3X and SAFE with SAFE Select. If using a 6 channel transmitter for the advanced receiver setup, only AS3X is available.



CH 5: L FLAP

Start all transmitter programming with a blank ACRO model (perform a model reset), then name the model. HIGH 100% Set Dual Rates to LOW 70% 100% Set Servo Travel to Set Throttle Cut to -130% 1. Go to the SYSTEM SETUP 2. Set MODEL TYPE: AIRPLANE 3. Set AIRCRAFT TYPE: WING: 1 AIL 1 FLAP 4. Set CHANNEL ASSIGN: Channel Input Config: 5 GEAR: INH 6 AUX1: N/A 5. Go to the FUNCTION LIST 6. Set FLAP SYSTEM: SELECT SWITCH D: POS 0: 0% FLAP* POS 1: 50% FLAP* 10% Elevator POS 2: 100% FLAP* 20% Elevator SPEED 2.0 7. Set MIXING: P-MIX 1 Select: NORMAL Set INH > INH to read AIL > FL DX6e RATE: 100% 100% **DX6G2** OFFSET: 0% TRIM: INH Switch: ON 8. Set MIXING: P-MIX 2 Select: NORMAL Set INH > INH to read AIL > GEAR -100% RATE: -100% OFFSET: 0% TRIM: INH Switch: ON 9. Set MIXING: P-MIX 3

Advanced Transmitter Setup

Select; NORMAL Set INH > INH to read FL > GEAR RATE: 100% 0% OFFSET: 0% TRIM: INH Switch: ON

rsome of the terminology and function locations used in the IX12 and IX20 programming may be slightly different than other Spektrum AirWare™ radios. The names given in parenthesis correspond to the iX12 and iX20 programming terminology. Consult your transmitter manual for specific information about programming your transmitter.

* Flap programming values may vary slightly. For your initial flights use the recommended flap travel settings provided in the Flaps section and adjust the flap travel to your preference on subsequent flights.

AMA National Model Aircraft Safety Code

Effective January 1, 2018

- A model aircraft is a non-human-carrying device capable of sustained flight within visual line of sight of the pilot or spotter(s). It may not exceed limitations of this code and is intended exclusively for sport, recreation, education and/or competition. All model flights must be conducted in accordance with this safety code and related AMA guidelines, any additional rules specific to the flying site, as well as all applicable laws and regulations. As an AMA member I agree:
- I will not fly a model aircraft in a careless or reckless manner.
- I will not interfere with and will yield the right of way to all human-carrying aircraft using AMA's See and Avoid Guidance and a spotter when appropriate.
- I will not operate any model aircraft while I am under the influence of alcohol or any drug that could adversely affect my ability to safely control the model.
- I will avoid flying directly over unprotected people, moving vehicles, and occupied structures.
- I will fly Free Flight (FF) and Control Line (CL) models in compliance with AMA's safety programming.
- I will maintain visual contact of an RC model aircraft without enhancement other than corrective lenses prescribed to me. When using an advanced flight system, such as an autopilot, or flying First-Person View (FPV), I will comply with AMA's Advanced Flight System programming.
- I will only fly models weighing more than 55 pounds, including fuel, if certified through AMA's Large Model Airplane Program.
- I will only fly a turbine-powered model aircraft in compliance with AMA's Gas Turbine Program.
- I will not fly a powered model outdoors closer than 25 feet to any individual, except for myself or my helper(s) located at the flightline, unless I am taking off and landing, or as otherwise provided in AMA's Competition Regulation.
- I will use an established safety line to separate all model aircraft operations from spectators and bystanders.

For a complete copy of AMA's Safety Handbook please visit:

www.modelaircraft.org/files/100.pdf

Limited Warranty

What this Warranty Covers

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

What is Not Covered

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

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

Purchaser's Remedy

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

Limitation of Liability

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

Law

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

WARRANTY SERVICES

Questions, Assistance, and Services

Your local hobby store and/or place of purchase cannot provide warranty support or service. Once assembly, setup or use of the Product has been started, you must contact your local distributor or Horizon directly. This will enable Horizon to better answer your questions and service you in the event

that you may need any assistance. For questions or assistance, please visit our website at www.horizonhobby.com, submit a Product Support Inquiry, or call the toll free telephone number referenced in the Warranty and Service Contact Information section to speak with a Product Support representative.

Inspection or Services

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

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

Warranty Requirements

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

Non-Warranty Service

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

ATTENTION: Horizon service is limited to Product compliant in the country of use and ownership. If received, a non-compliant Product will not be serviced. Further, the sender will be responsible for arranging return shipment of the un-serviced Product, through a carrier of the sender's choice and at the sender's expense. Horizon will hold non-compliant Product for a period of 60 days from notification, after which it will be discarded.

10/15

Contact Information

Country of Purchase	Horizon Hobby	Contact Information	Address	
	Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby.com/RequestForm/		
United States	Horizon Product Support	productsupport@horizonhobby.com	2904 Research Rd	
of America	(Product Technical Assistance)	877-504-0233	Champaign, Illinois, 61822 USA	
	Sales	websales@horizonhobby.com		
	Sales	800-338-4639		
Furancen Union	Horizon Technischer Service	service@horizonhobby.eu	Hanskampring 9	
European Union	Sales: Horizon Hobby GmbH	+49 (0) 4121 2655 100	D 22885 Barsbüttel, Germany	

FCC Information

FCC ID: BRWSPMSR6200A

Supplier's Declaration of Conformity

Timber X 1.2m BNF BASIC (EFL38500)



C 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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular

IC Information

CAN ICES-3 (B)/NMB-3(B) IC: 6157A-SPMSR6200A

This device contains license-exempt transmitter(s)/receivers(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following 2 conditions:

- 1. This device may not cause interference.
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

Compliance Information for the European Union

EU Compliance Statement:

Timber X 1.2m BNF BASIC (EFL38500); Hereby, Horizon Hobby, LLC declares that the device is in compliance with the following: EU Radio Equipment Directive 2014/53/EU.

Timber X 1.2m PNP (EFL3875); Hereby, Horizon Hobby, LLC declares that the device is in compliance with the following: EU EMC Directive 2014/30/EU. The full text of the EU declaration of conformity is available at the following internet address: https://www.horizonhobby.com/content/support-rendercompliance.

Wireless Frequency Range and Wireless Output Power: 2404 - 2476 MHz 3dBm

installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Horizon Hobby, LLC 2904 Research Rd.. Champaign, IL 61822 Email: compliance@horizonhobby.com Web: HorizonHobby.com

EU Manufacturer of Record: Horizon Hobby, LLC 2904 Research Road Champaign, IL 61822 USA

EU Importer of Record:

Horizon Hobby, GmbH Hanskampring 9 22885 Barsbüttel Germany

WEEE NOTICE:



This appliance is labeled in accordance with European Directive 2012/19/EU concerning waste of electrical and electronic equipment (WEEE). This label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.

Recommended Receivers•Empfohlene Empfänger Récepteurs Recommandés•Ricevitori Raccomandati

PNP Only • I	Nur PNP • PNP	Uniquement • Solo PNP	
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Part # l Nummer Numéro l Codice	Description	Beschreibung	Description	Descrizione
	Telemetry Equipped Receivers	Empfänger mit Telemetrie	Récepteurs avec télémétrie	Riceventi con telemetria
SPMAR620	AR620 6-Channel Air Integrated Telemetry Receiver	AR620-6-Kanal- Flugzeugempfänger mit integrierter Telemetrie	Récepteur aérien avec télémétrie intégrée 6 canaux AR620	Ricevente aereo AR620 6 canali con telemetria integrata
SPMAR6610T	Fuse Integrated Telemetry	AR6610T-6-Kanal-Karbon- Sicherungsempfänger mit integrierter Telemetrie	avec télémétrie intégrée 6	Ricevente AR6610T 6 canali con telemetria integrata per fusoliera in carbonio
	AS3X Equipped Receivers	AS3X-Empfänger	Récepteurs avec AS3X	Riceventi con AS3X
SPMAR631		AR631-6-Kanal-AS3X- Sportempfänger	Récepteur AS3X sport 6 canaux AR631	AR631 ricevitore sportivo a 6 canali AS3X
SPMAR637T	AR637T 6-Channel AS3X Sport Receiver	AR637T-6-Kanal-AS3X- Sportempfänger	Récepteur AS3X sport 6 canaux AR637T	AR637T ricevitore sportivo a 6 canali AS3X
SPMAR8360	AR8360 6-Channel AS3X Sport Receiver	AR8360-6-Kanal-AS3X- Sportempfänger	Récepteur AS3X sport 6 canaux AR8360	AR8360 ricevitore sportivo a 6 canali AS3X

Replacement Parts • Ersatzteile • Pièces de rechange • Pezzi di ricambio

Part # l Nummer Numéro l Codice	Description	Beschreibung	Description	Descrizione
EFL3851	Fuselage: Timber X	Timber X: Rumpf	Timber X - Fuselage	Fusoliera: Timber X
EFL3852	Wing Set: Timber X	Timber X: Tragflächen	Timber X - Aile	Set ali: Timber X
EFL3853	Horizontal Stab W/Tube: Timber X	Timber X: Höhenleitwerk mit Verbinder	Timber X - Stabilisateur	Stabilizzatore orizzontale con baio- netta: Timber X
EFL3854	Steel Stab Joiner: Timber X	Stahlstabschreiner: Timber X	Stabilisateur en acier: Timber X	Stabilizzatore in acciaio: Timber X
EFL3855	Leading Edge Slat: Timber X	Timber X: Vorflügel	Timber X- Becs de bord d'attaque	lpersostentatori di bordo d'attacco dell'ala: Timber X
EFL3856	Decal Set: Timber X	Timber X: Dekorbogen	Timber X- Planche de décoration	Foglio decorazioni adesive: Timber X
EFL5253	Battery Hatch: Timber X	Timber X: Akkuhaube	Timber X - Trappe de batterie	Sportello batteria: Timber X
EFL5254	Cowl: Timber	Timber: Motorhaube	Timber - Capot	Naca motore: Timber
EFL3855	Leading Edge Slats: Timber X	Vorderkantenlatten: Timber X	lattes de bord d'attaque: Timber X	lamelle all'avanguardia: Timber X
EFL5256	Hardware Set: Timber	Timber: Kleinteile	Timber - Visserie	Set hardware: Timber
EFL5257	Landing gear set: Timber	Timber: Fahrwerk	Timber - Train d'atterrissage	Set carrello: Timber
EFL5258	Wheel Set: Timber	Timber: Radset	Timber - Roues	Set ruote: Timber
EFL5260	Pushrod Set: Timber	Timber: Gestängeset	Timber - Tringleries	Set aste comandi: Timber
EFL5262	Spinner: Timber	Timber: Spinner	Timber - Cône	Ogiva: Timber
EFL5263	Prop Adapter: Timber	Timber: Propelleradapter	Timber - Adaptateur d'hélice	Adattatore elica: Timber
EFL5264	Motor Mount: Timber	Timber: Motorhalter	Timber - Support moteur	Supporto motore: Timber
EFL5265	Plastic Parts Set: Timber	Timber: Kunststoffteile	Timber - Pièces plastique	Set parti in plastica: Timber
EFL5266	Decal Sheet: Timber	Abziehbild: Timber	feuille de décalque: Timber	foglio decal: Timber
EFL5267	Landing Gear Retainer: Timber	Timber: Fahrwerkshalter	Timber - Bague de train d'atterrissage	Fermo carrello d'atterraggio: Timber
EFLP1304E	Propeller: 13 x 4	Propeller 13 x 4	Hélice 13 x 4	Elica: 13 x 4
EFLM17533	10BL Brushless outrunner 900Kv	10BL Brushless outrunner 900Kv	10BL Brushless outrunner 900Kv	10BL Brushless outrunner 900Kv
EFLM108019	Motor Shaft: Ultimate 2	Ultimate 2: Motorwelle	Ultimate 2 - Axe moteur	Albero motore: Ultimate 2
EFLA1050	50A Brushless ESC	50A ESC Regler	Contrôleur 50A	ESC 50A
SPMSA332	9 Gram Servo	9 Gram Servo	Servo 9 gr	Servocomando 9 g
SPMSA332R	9g Servo MG Reversed	9 Gram Servo, R	Servo 9 gr, R	Servocomando 9 g, R
SPMAR631	AR631 6-Channel AS3X Sport Receiver	AR631 6-Kanal AS3X Sport Empfänger	Récepteur AR631 6 voies	Ricevente AR631 AS3X sport a 6 canali

Optional Parts • Optionale Bauteile • Pièces optionnelles • Pezzi opzionali

Part # I Nummer Numéro I Codice	Description	Beschreibung	Description	Descrizione
EFL5261	Float Set: Timber	Timber: Schwimmerset	Timber - Flotteurs	Set galleggianti: Timber
EFLA250	Park Flyer Tool Assortment, 5 pc	Park Flyer Werkzeugsortiment, 5 teilig	Assortiment d'outils park flyer, 5pc	Park Flyer assortimento attrezzi, 5 pc
SPMX22003S30	11.1V 3S 30C 2200mAh Li-Po	11.1V 3S 30C 2200mAh LiPo	Li-Po 3S 11,1V 2200mA 30C	11.1V 3S 30C 2200MAH Li-Po
SPMX22004S30	14.4V 4S 30C 2200mAh Li-Po	14.4V 4S 30C 2200mAh LiPo	Li-Po 4S 14,4V 2200mA 30C	14.4V 4S 30C 2200MAH Li-Po
SPMXC1000	Smart S1200 DC Charger, 1x200W	Smart S1200 DC Charger, 1x200W	Smart S1200 DC Charger, 1x200W	Smart S1200 DC Charger, 1x200W
SPMXC1010	Smart S2100 AC Charger, 2x100W	Smart S2100 AC Charger, 2x100W	Smart S2100 AC Charger, 2x100W	Smart S2100 AC Charger, 2x100W
SPMXBC100	Li-Po Cell Voltage Checker	Li-Po Cell Voltage Checker	Testeur de tension d'éléments Li-Po	Voltmetro verifica batterie LiPo
DYN1405	Li-Po Charge Protection Bag, Large	Dynamite LiPoCharge Protection Bag groß	Sac de charge Li-Po, grand modèle	Sacchetto grande di protezione per carica LiPo
DYN1400	Li-Po Charge Protection Bag, Small	Dynamite LiPoCharge Protection Bag klein	Sac de charge Li-Po, petit modèle	Sacchetto piccolo di protezione per carica LiPo
SPM6775	NX6 6-Channel Transmitter w/ AR6610T Receiver	Spektrum NX6 DSMX 6-Kanal Sender	Emetteur NX6 DSMX 6 voies	NX6 DSMX Trasmettitore 6 canali
SPMR6775	NX6 6-Channel Transmitter Only	Spektrum NX6 DSMX 6-Kanal Sender	Emetteur NX6 DSMX 6 voies	NX6 DSMX Trasmettitore 6 canali
SPMR10100	NX10 10-Channel Transmitter Only	Spektrum NX10 DSMX 10-Kanal Sender	Emetteur NX10 DSMX 10 voies	NX10 DSMX Trasmettitore 10 canali



Timber[®]X 1.2m

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US 9,056,667. US 9,753,457. US 10,078,329. US 9,930,567. US 10,419,970. US 8,672,726. Other patents pending.

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