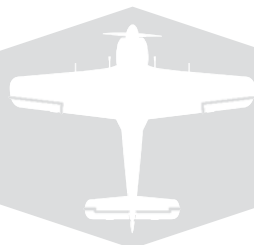
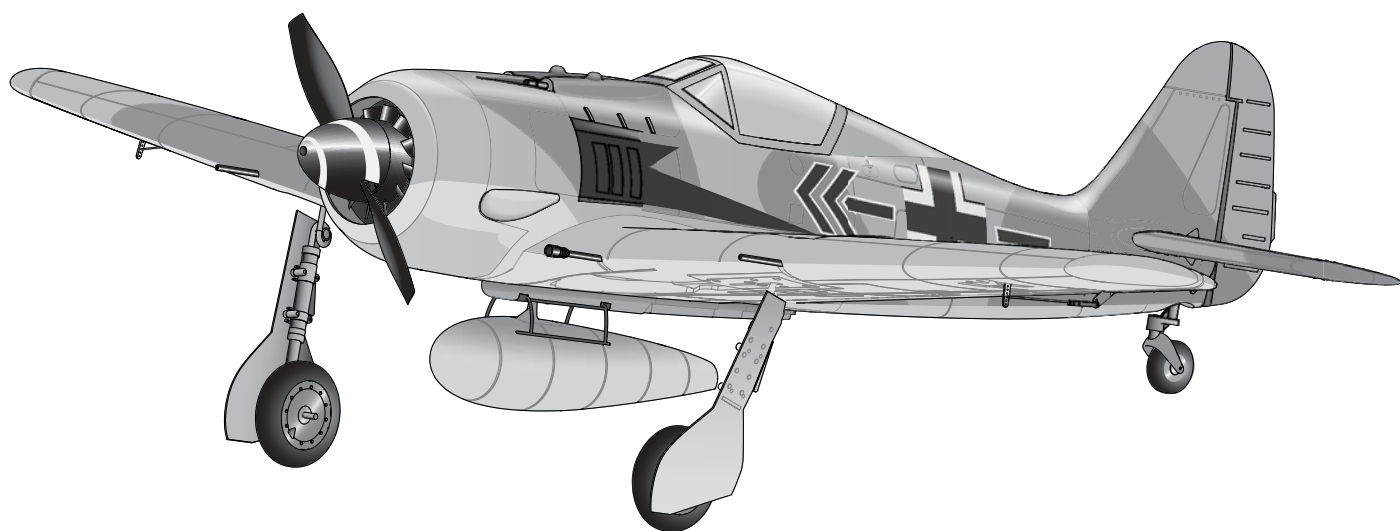




parkzone®



Focke-Wulf 190A



*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 www.horizonhobby.com and click on the support tab for this product.

Meaning of Special Language:

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

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND little or no possibility of injury.

CAUTION: Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury.

WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury.



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

This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not use with incompatible components or alter this product in any way outside of the instructions provided by Horizon Hobby, 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 children under 14 years. This is not a toy.

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.

The Focke-Wulf 190A

You are just a few simple steps away from taking flight with this impressive replica of one of WW2's most feared fighters of the Luftwaffe. The Focke-Wulf 190A was arguably the most capable fighter in the European theatre until the Spitfire Mk IX took to the skies in 1942. Now you can re-create your own epic air battles between axis and allied powers with this ParkZone® Focke-Wulf 190A. Its accurate scale outline, great handling characteristics and brushless motor provide a pleasurable flying experience. Adding the optional retractable landing gear (EFLG115) will clean up the flight performance and make it look better in the air. You can even add an optional servoless payload release (EFLA405) that will enable you to drop the included dummy drop tank.

Before you begin assembly and head out to fly, please take some time with this manual to confirm your understanding of the aircraft. Inside you'll find helpful tips, a handy trouble shooting guide, and a preflight checklist along with the assembly instructions. Going through this manual as you assemble the model will help ensure your first flying experience with the Focke-Wulf 190A, and every one after, will be a success.

Box Contents

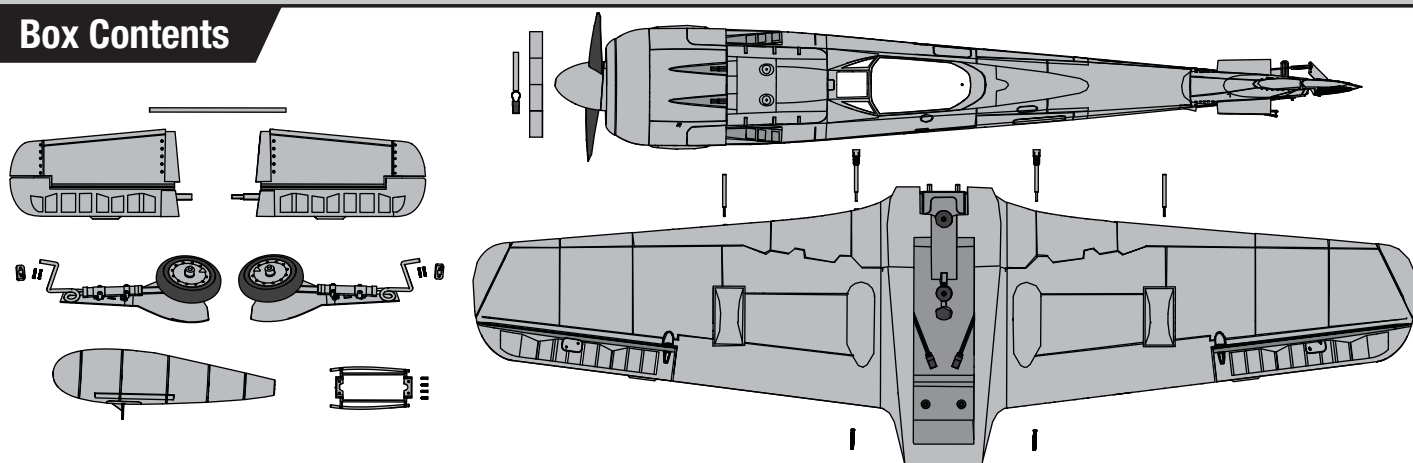
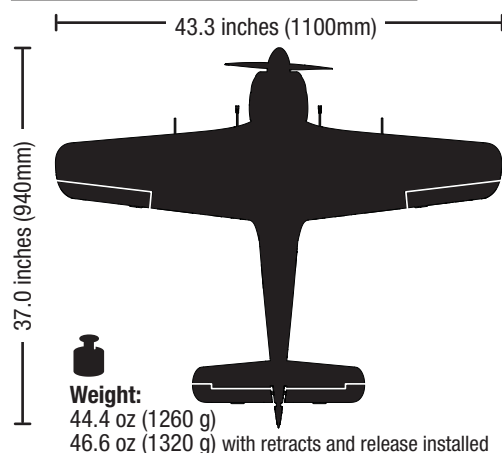


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Specifications



BNF BIND-N-FLY® BASIC	PNP PLUG-N-PLAY®		
Installed	Installed		Motor: 15-size Brushless Outrunner Motor, 950Kv (PKZ5116)
Installed	Installed		ESC: EFL 30A Pro Brushless ESC (EFLA1030)
Installed	Installed		(2) Aileron Servos (PKZ1081) (1) Rudder Servo (1) Elevator Servo (PKZ1090)
Installed	Needed to Complete		Receiver: Spektrum™ AR610 4-Channel DSM2®/DSMX® Full range or park flyer sport receiver
Needed to Complete	Needed to Complete		Battery: 11.1V 3S 2200mAh 25C Li-Po (PKZ1029)
Needed to Complete	Needed to Complete		Battery Charger: 300mA–2.0A 2–to 3–cell Li-Po battery charger (PKZ1040)
Needed to Complete	Needed to Complete		Recommended Transmitter: Full-Range 4-Channel (or more) 2.4GHz with Spektrum™ DSM2®/DSMX® technology.

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

Transmitter and Receiver Binding

“Binding” is the process of programming the receiver to recognize the GUID (Globally Unique Identifier) code of a single specific transmitter. You need to bind your chosen Spektrum™ DSM2®/DSMX® technology equipped aircraft transmitter to the receiver for proper operation (please visit www.bindnfly.com for a complete list of compatible transmitters).



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.

Bind Plug Installation



✓ Binding Procedure Reference Table

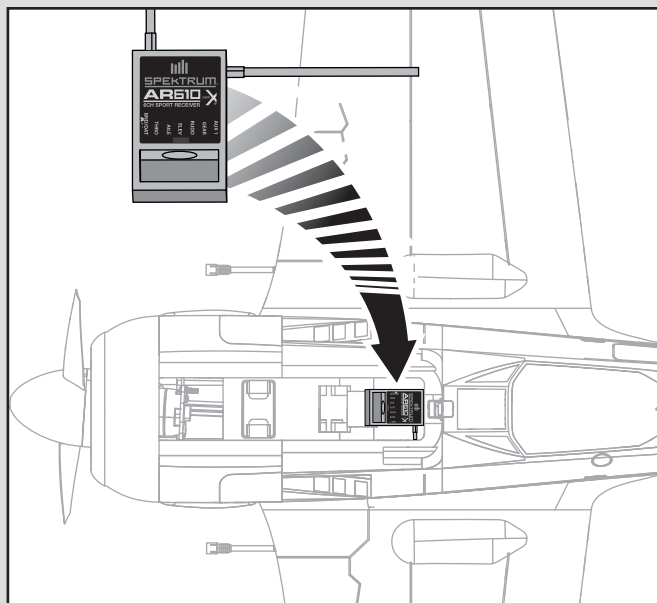
1. Read the transmitter instructions for binding to a receiver (location of transmitter's Bind control).
2. Make sure the transmitter is powered OFF.
3. Move the transmitter controls to neutral (flight controls: rudder, elevators and ailerons) or to low positions (throttle, throttle trim).*
4. Install a bind plug in the receiver bind port.
5. Connect the flight battery to the ESC. The ESC will produce a series of sounds. One long tone, then two short tones confirm that the LVC is set for the ESC.
6. The receiver LED will begin to flash rapidly.
7. Power ON the transmitter while holding the transmitter bind button or switch. Refer to your transmitter's manual for binding button or switch instructions.
8. When the receiver binds to the transmitter, the light on the receiver will turn solid and the ESC will produce a series of three ascending tones. The tones indicate the ESC is armed, provided the throttle stick and throttle trim are low enough to trigger arming.
9. Remove the bind plug from the bind port.
10. Safely store the bind plug (some owners attach the bind plug to their transmitter using two-part loops and clips).
11. The receiver should retain the binding instructions received from the transmitter until another binding is done.

* The throttle will not arm if the transmitter's throttle control is not put at the lowest position. If you encounter problems, follow the binding instructions and refer to the transmitter troubleshooting guide for other instructions. If needed, contact the appropriate Horizon Product Support office.



Receiver Selection and Installation

1. Before installing the wing, install your park flyer or full range receiver in the fuselage using hook and loop tape or double-sided servo tape.
2. Attach the elevator and rudder servo connectors to the appropriate channels of the receiver.
3. Attach the aileron Y-harness to the aileron channel of the receiver.
4. Attach the ESC connector to the throttle channel of the receiver.

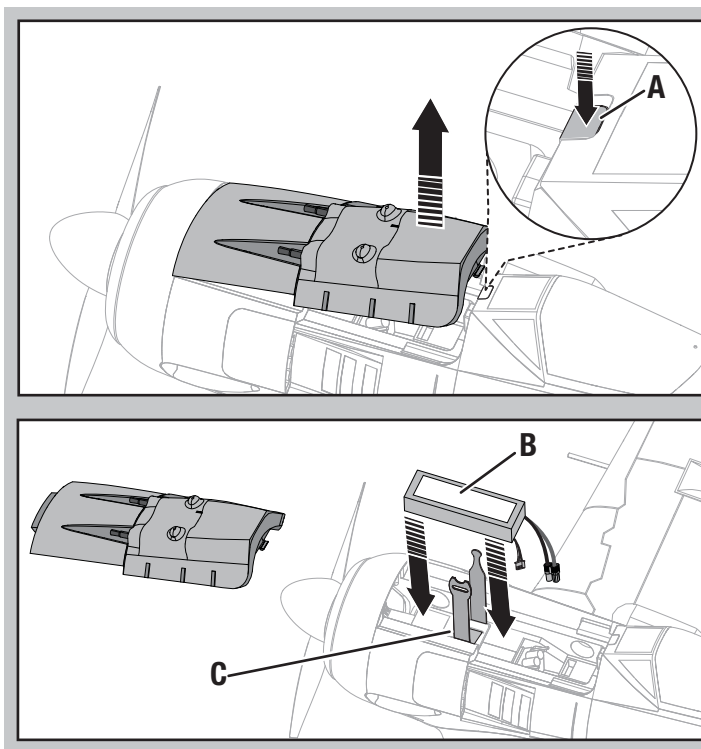


Battery Installation

1. Push the button (A) into the fuselage, releasing the battery latch.
2. Lift the back of the battery hatch and pull backwards to remove the battery hatch.
3. Install the fully charged battery (B) in the battery compartment with the end of the battery aligned with the rear edge of the foam battery shelf. See the Adjusting the Center of Gravity instructions for more information.
4. Make sure the flight battery is secured using the hook and loop strap (C).
5. Reinstall the battery hatch. Push the rear of the battery hatch securely to ensure the latch is fully engaged.

Battery Selection

- We recommend the ParkZone 2200mAh 11.1V 3S Li-Po battery (PKZ1029).
- If using another battery, the battery must be at least a 2200mAh battery.
- Your battery should be approximately the same capacity, dimensions and weight as the ParkZone Li-Po battery to fit in the fuselage without changing the center of gravity a large amount.



ESC and Receiver Arming

Arming the ESC also occurs after binding as previously described, but subsequent connection of a flight battery requires the steps below.



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



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

1. Power ON the transmitter and lower the throttle and throttle trim to their lowest settings.

DO NOT connect the battery while the throttle stick is at full or the ESC will go into programming mode. If a musical tone sounds after 5 seconds, immediately disconnect the battery, then lower the throttle.

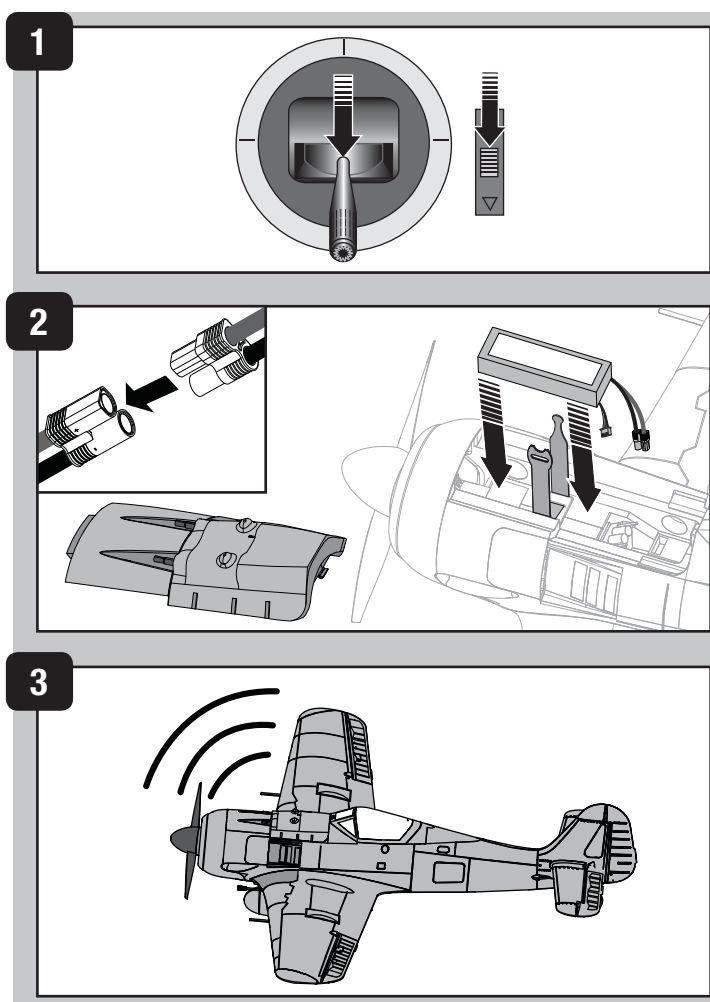
2. Remove the battery hatch and install the fully charged battery in the battery compartment using the hook and loop strip, then connect the battery to the ESC.

3. When power is applied to the ESC:

A) The ESC will sound 3 tones to indicate the Low Voltage Cutoff (LVC) is set for the connected 3-cell battery pack..

Refer to the LVC portion of the Flying Tips and Repairs section for more information.

B) An LED will light on the receiver.





We recommend installing the E-flite electric retracts (optional) in the wing before installing the wing on the fuselage.

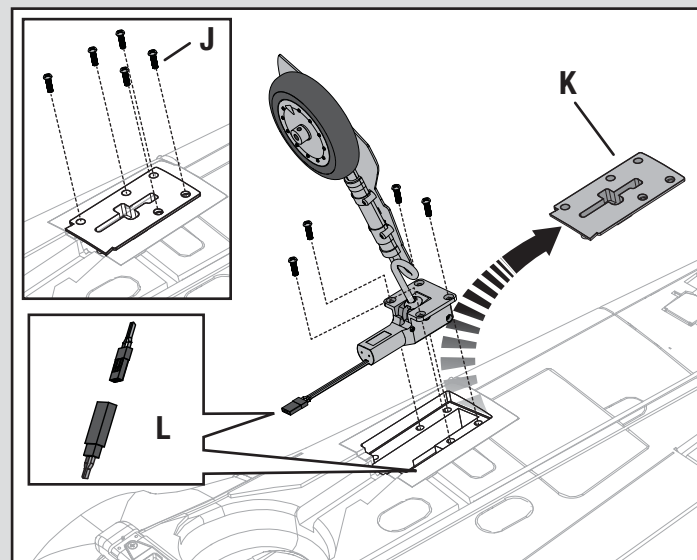
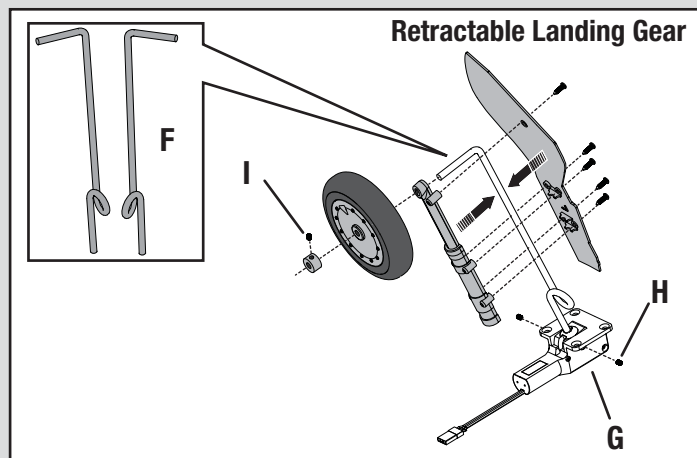
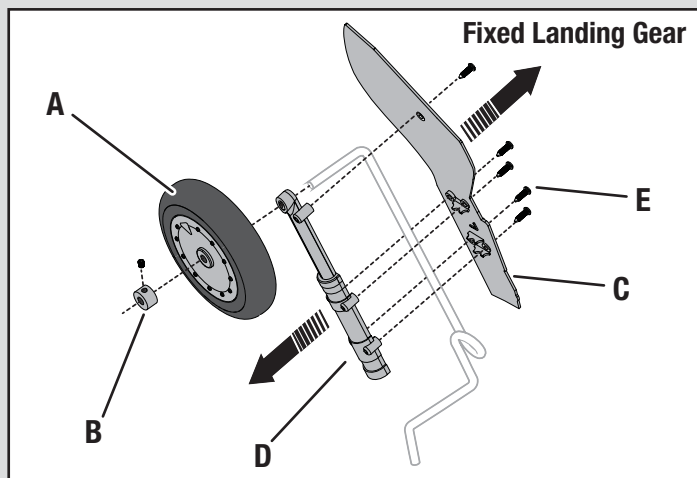
OPTIONAL E-flite Retractable Landing Gear / (EFLG115, sold separately)

NOTICE: Always ensure the retracts and wheels are installed so that there are no obstructions when extending and retracting the struts. Failure to do so could result in damage to the aircraft or gear.

1. Remove the wheels (**A**) and wheel collars (**B**) from the fixed left and right struts.
 2. Remove the landing gear doors (**C**) and strut covers (**D**) from the fixed landing gear by removing 10 screws (**E**) (5 per side).
 3. Install the landing gear doors and strut covers onto the respective struts included with the retract kit.
 4. Install the left and right struts (**F**) (included with the retract kit) in the retracts (**G**) using the set screws (**H**).
 5. Install the wheels on the new struts using the wheel collars and set screws (**I**).
 6. Remove the 10 screws (**J**) (5 per side) and the fixed landing gear mounting plates (**K**) from the wing.
 7. Install the retracts in the wing using 8 screws (4 per side) removed from the fixed gear mounting plates.
 8. Connect the retracts to the pre-installed gear harness extensions (**L**) in the wheel wells. Push the connectors under the tape on the wing so the retracts are not blocked.
- Tip:** Ensure the extended landing gear wheels have no toe-in or toe-out for proper ground handling.
9. When installing the wing, connect the gear Y-harness to the GEAR port of the receiver.
 10. Ensure the wheels move freely in and out of the wheel wells when extending and retracting, then tighten the retract wheel collar set screws on the struts, using threadlock when needed.

Tip: Where needed, use a metal file to make a flat spot on a strut for the set screw of the wheel collar. Tighten the set screw in each collar on the flat spot on the strut.

When needed, disassemble in reverse order.



Wing Installation

1. Remove the battery hatch from the fuselage using the latch button.
2. Turn over the fuselage so the bottom faces up and install the wires and connectors through the hole in the fuselage (A) to the receiver.

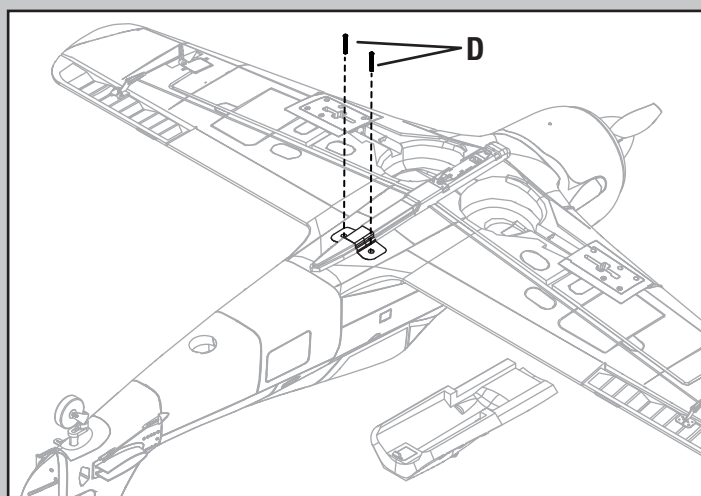
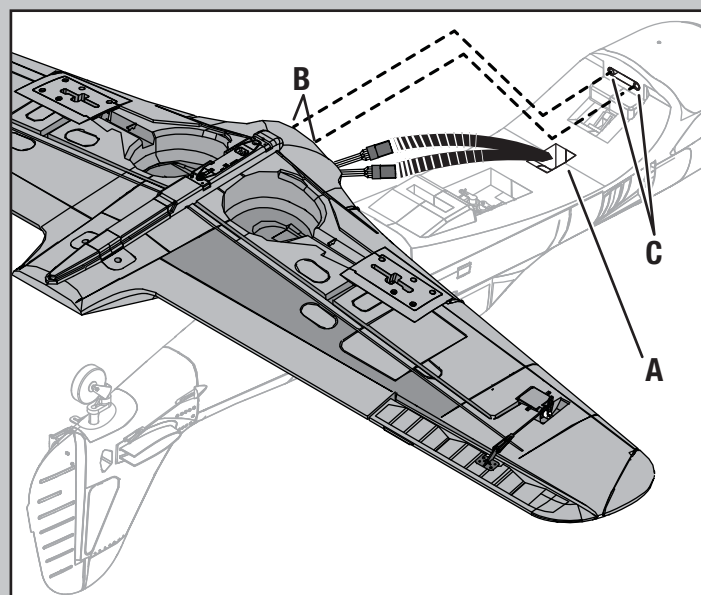


CAUTION: DO NOT crush or otherwise damage the wiring when attaching the wing to the fuselage.

3. Insert the guide pins (B) on the front of the wing in the fuselage plate holes (C), then connect the wing to the fuselage using 2 screws (D).
4. Turn the aircraft over to connect the servos and optional connectors to the receiver or Y-harnesses. The left and right servos can be connected to either side of a Y-harness.

TIP: Carefully coil and store the servo wires in the hole in the fuselage for easier battery installation.

When needed, disassemble in reverse order.



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.

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

More control throw	Less control throw

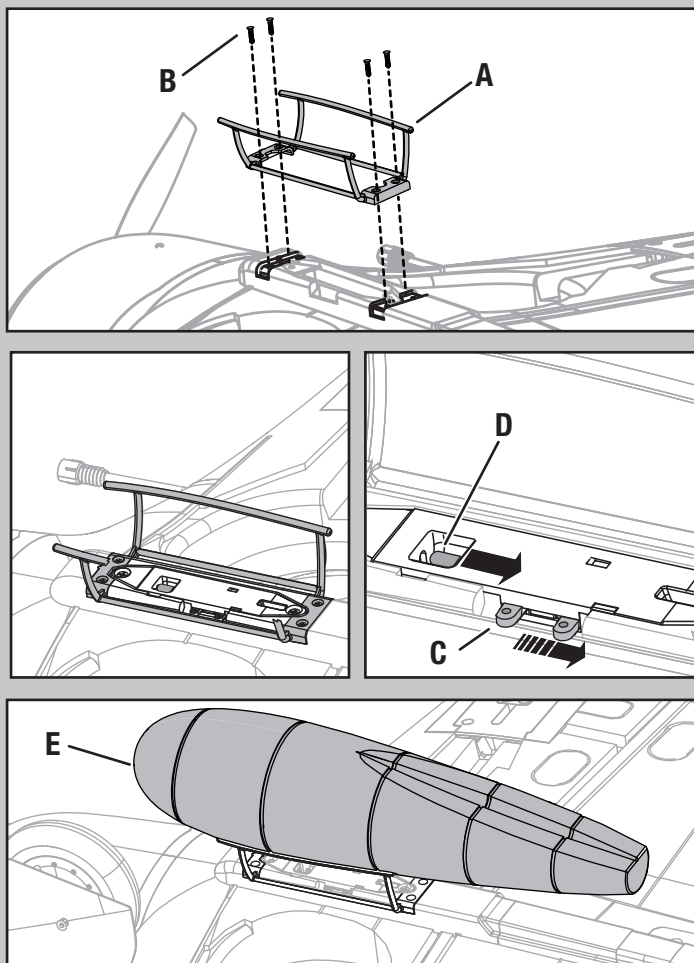
Factory Settings		
	Horns	Arms
Elevator		
Rudder		
Ailerons		

Drop Tank Installation

IMPORTANT: The included scale drop tank will slow your aircraft much like the auxiliary tank on a full-scale aircraft.

NOTICE: NEVER attempt to belly land your aircraft with the drop tank or drop tank support frame installed or damage to the aircraft may result.

1. Install the drop tank support frame (A) on the wing using 4 screws (B) as shown.
2. Pull back the lever (C) on the side of the payload mount to retract the pin (D).
3. Load the drop tank (E)
4. Release the lever when the drop tank is fully seated in the payload mount.
5. Ensure the drop tank is secure and the pin is fully engaged and does not move. A loose payload can affect flight performance.



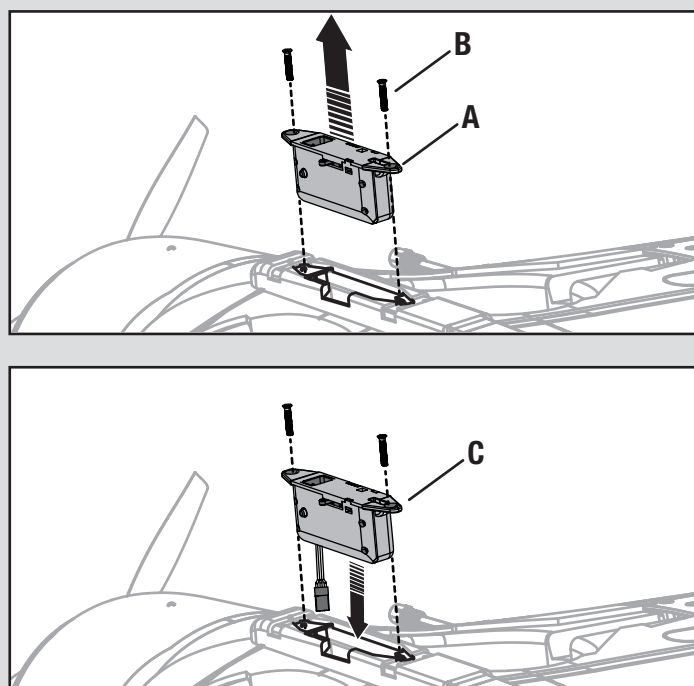
OPTIONAL Servoless Payload Release Installation

(EFLA405, sold separately)

1. Remove the factory-installed payload mount (A) and 2 screws (B) from the drop tank fairing located on the bottom of the wing.
2. Install the servoless payload release (C) by guiding the payload release wiring and connector through the connecting holes of the fuselage and wing. Secure the payload release with 2 screws from the payload mount.
3. Invert the aircraft so the battery hatch faces up. Remove the battery hatch and connect the payload release connector to the AUX1 port of the receiver. Replace the battery hatch on the fuselage.
4. Install the drop tank support frame and load the drop tank as described in the "Installing the Drop Tank" section above.

IMPORTANT: After installing an optional payload release, use the transmitter to release a payload while the aircraft is still on the ground, observing the aircraft's reaction. In flight, be ready for the aircraft reaction whenever a payload is released.

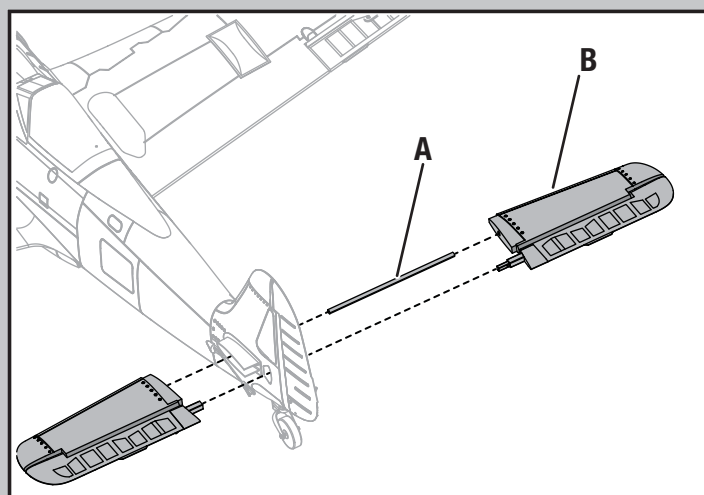
- Never drop any object that creates a hazard to persons or property.
- Never activate the payload release above crowded areas or cars.
- Always choose responsibly when selecting your payload.
- Always follow all aircraft instructions when using the device.



Horizontal Tail Installation

1. Slide the horizontal tail tube (A) into the hole in the rear of the fuselage.
2. Install the left and right horizontal tails (B) onto the fuselage as shown. Ensure the control horn faces down.
3. Apply 4 pieces of tape (C) to the fuselage mounts (one on the top and bottom of each half of the horizontal tail).
4. Attach the clevis to the elevator control horn (see instructions for clevis connection).

When needed, disassemble in reverse order.

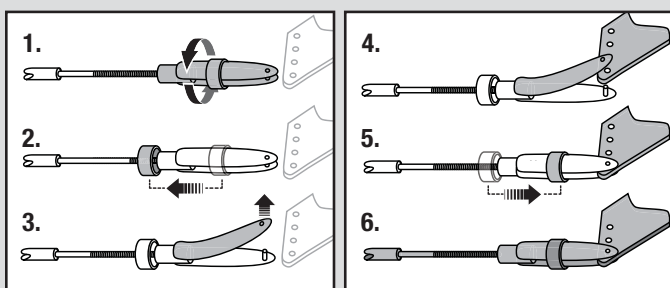
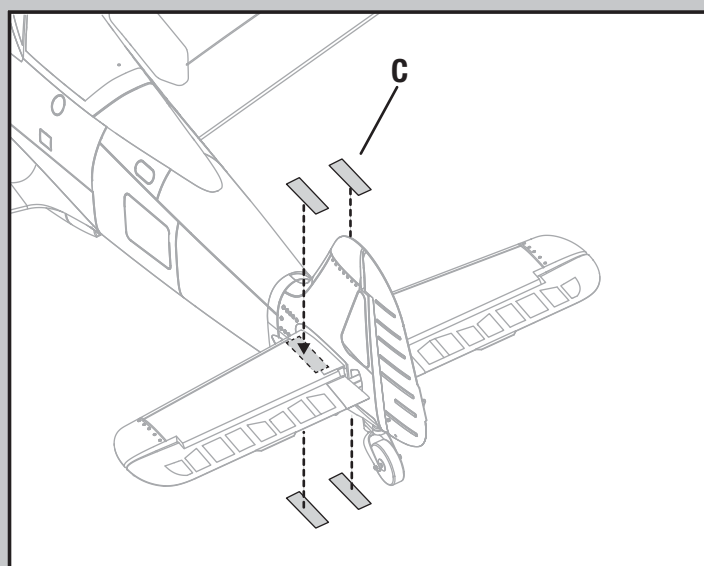


Clevis Installation

Tip: Turn the clevis on the linkage to change the length of the linkage between the servo arm and the control horn.

- Pull the tube from the clevis to the linkage.
- Carefully spread the clevis, then insert the clevis pin into the desired hole in the control horn.
- Move the tube to hold the clevis on the control horn.

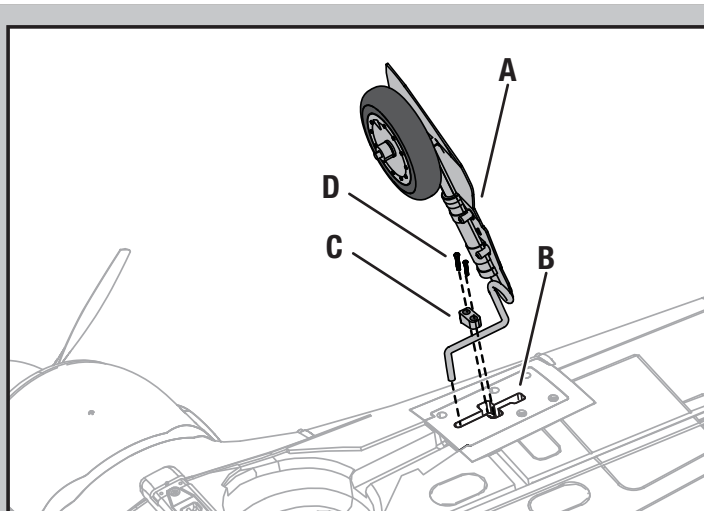
After binding a transmitter to the aircraft receiver, set the trims and sub-trims to 0, then adjust the clevises to center the control surfaces.



Fixed Landing Gear Installation

1. Install the left and right fixed landing gear (A) in the respective mounting plates (B).
2. Install the left and right covers (C) in the respective mounting plates using 2 screws (D) each.

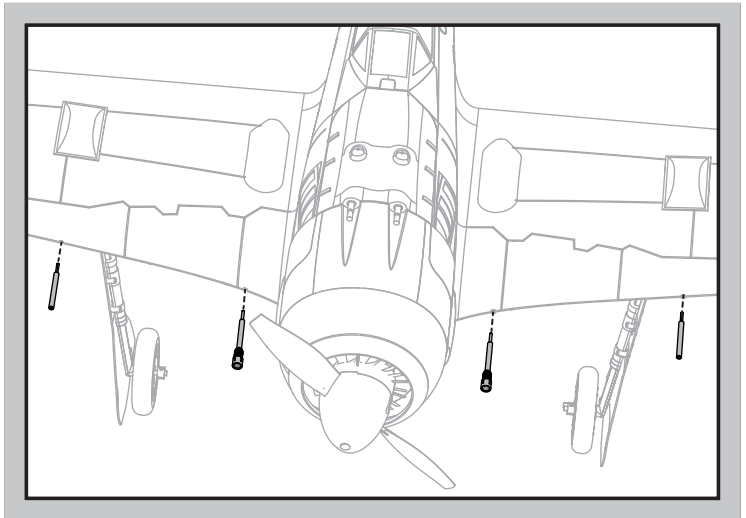
When needed, disassemble in reverse order.



Cannon Installation

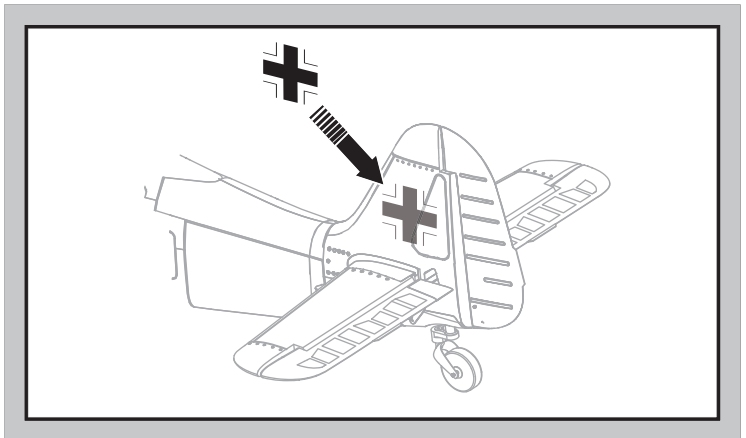
NOTICE: NEVER attempt to belly land your aircraft with the cannons installed or damage to the aircraft may result.

1. For scale appearance, install the included cannons by press fitting them into the leading edge of the wing as shown.



Decal installation

Your aircraft is supplied with two small Iron crosses for the tail insignia, to be applied as shown. For those desiring a more accurate tail insignia, other decals are available separately (PKZ4930, not available in all territories).



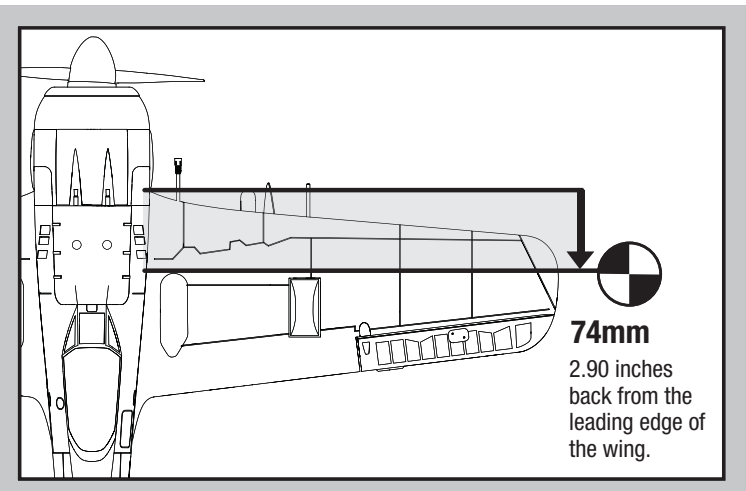
First Flight Preparation

1. Read this instruction manual thoroughly.
2. Remove and inspect the contents.
3. Charge the flight battery.
4. Fully assemble the model.
5. Install the flight battery in the aircraft (once it has been fully charged).
6. Bind the aircraft to your transmitter.
7. Make sure the linkages move freely.
8. Perform the Control Direction Test with the transmitter.
9. Adjust the flight controls and transmitter.
10. Perform a radio system Range Check.
11. Find a safe and open area.
12. Plan flight for flying field conditions.

Center of Gravity (CG)

The CG location is 74mm back from the leading edge of the wing. Install the recommended flight battery with the end of the battery aligned with the rear edge of the foam battery shelf. Make sure the flight battery is secured using the hook and loop strap. It is easiest to balance the Focke-Wulf with the aircraft inverted.

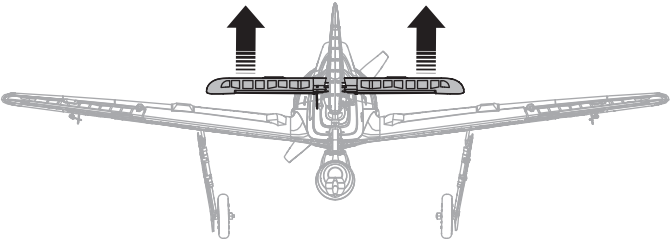
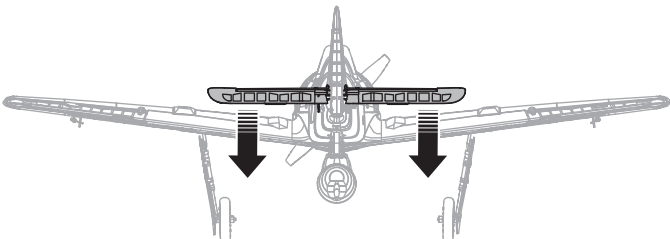
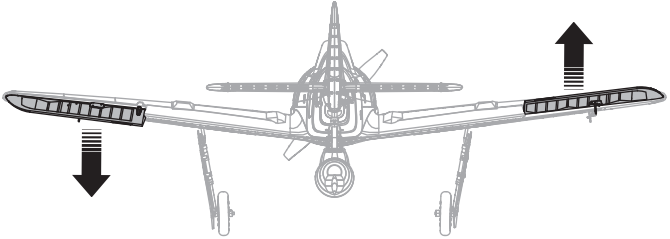
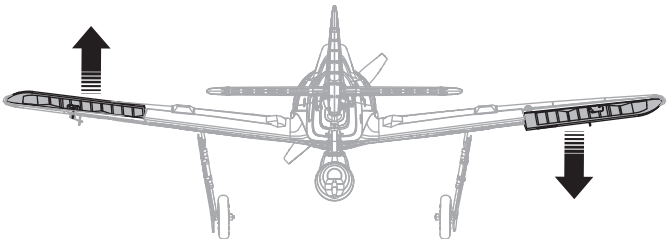
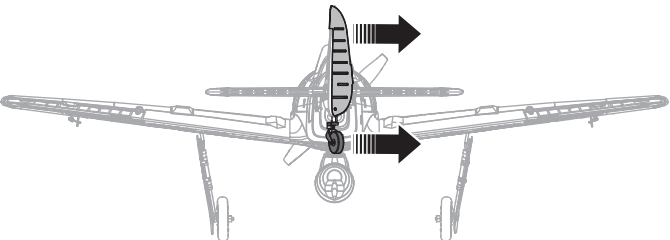
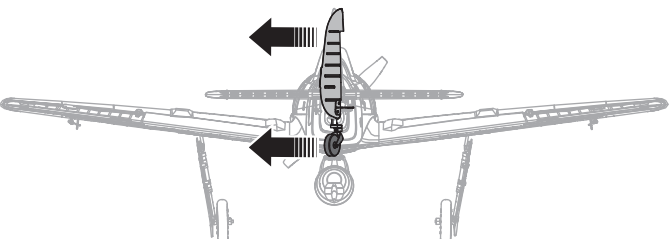
Aircraft CG and weight is based on a ParkZone 11.1V 2200mAh 25C battery (PKZ1029) installed.



Control Direction Test

Move the controls on the transmitter to make sure the aircraft control surfaces move correctly and in the proper direction.

After performing the Control Test, correctly set the failsafe. Make sure the transmitter controls are at neutral and the throttle and throttle trim are in the low position, then rebind the aircraft to your transmitter. If the receiver loses its link to the transmitter, the failsafe will drive the servos to these settings made at binding.

	Transmitter Command	Aircraft Reaction
Elevator	Up Elevator Command	
	Down Elevator Command	
Aileron	Stick Right	
	Stick Left	
Rudder	Stick Right	
	Stick Left	

Dual Rates

Your DSM2/DSMX full range transmitter features dual rates to help you select the amount of travel that you want from the control surfaces.

	High Rate	Low Rate
Aileron	12mm up/down	8mm up/down
Elevator	10mm up/down	8mm up/down
Rudder	25mm left/right	20mm left/right

Flying Tips and Repairs

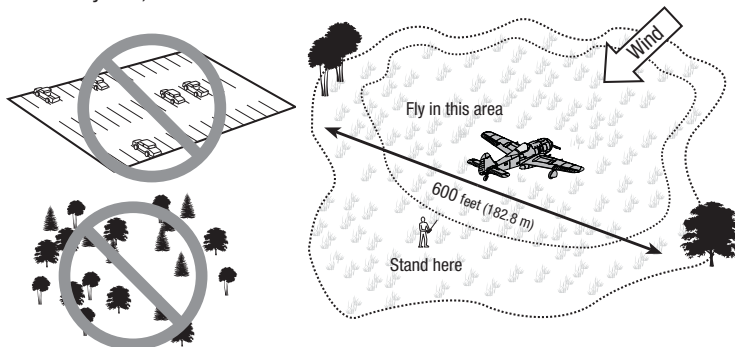
Consult local laws and ordinances before choosing a flying location.

Range Check your Radio System

After final assembly, range check the radio system with the aircraft. Refer to your specific transmitter instruction manual.

Flying

Always choose a wide-open space for flying your aircraft. It is ideal for you to fly at a sanctioned flying field. If you are not flying at an approved site, always avoid flying near houses, trees, wires and buildings. You should also be careful to avoid flying in areas where there are many people, such as busy parks, schoolyards, or soccer fields.



Belly Landing

If landing on grass without the landing gear, use the same approach as if flying with landing gear. Start your flare with the power off about 1 foot (30cm) above the ground and hold the nose up until the tail touches down. Try to keep the wings level to prevent clipping a wing on the ground and turning the aircraft sideways.

NOTICE: For belly landing, remove the cannons, payload and support frame from the wing or damage to the aircraft may result.

Takeoff

Start the takeoff using rudder to keep the aircraft straight. As the aircraft reaches flying speed, apply a slight amount of up elevator and the aircraft will fly off the ground. Avoid forcing the aircraft into the air. Climb to check trim. Once the trim is adjusted, you can begin to explore the flight envelope of the aircraft.

Landing

Flight times of 7 minutes or more are achievable if using proper throttle management.

For your first flights, set your transmitter timer or a stopwatch to **5 minutes**. Adjust your timer for longer or shorter flights once you have flown the model. If the motor pulses, land the aircraft immediately and recharge the flight battery. It is not recommended to fly the battery to Low Voltage Cutoff (LVC).

To land the aircraft, fly the aircraft down to the ground using 1/4 –1/3 throttle to allow for enough energy for a proper flare. The aircraft is easiest to

land doing a wheel landing (two point), where the aircraft touches down on the main landing gear first while the tailwheel is still off the ground. The aircraft can also be landed in a three-point attitude, where all three wheels touch down at the same time. When the aircraft touches down, reduce back pressure on the elevator stick to prevent the plane from becoming airborne again.

If landing on grass, it is best to hold full up elevator after touchdown and when taxiing to prevent nosing over.

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: Crash damage is not covered under warranty.

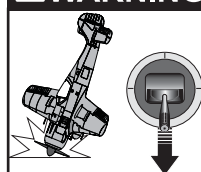
NOTICE: When you are finished flying, never keep the aircraft in the sun. Do not store the aircraft in a hot, enclosed area such as a car. Doing so can damage the foam.

Repairs

Thanks to the Z-Foam™ construction of 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.

⚠ WARNING



Always decrease throttle at propeller strike.

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 pulses, 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.

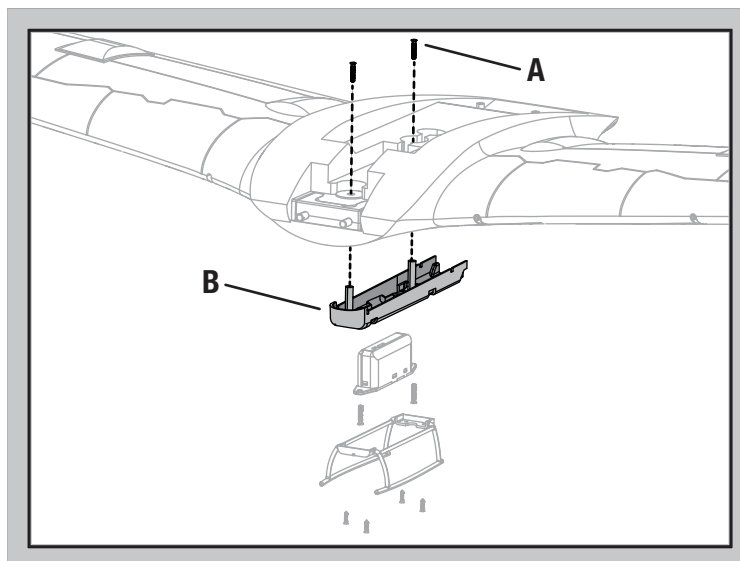
Tip: Monitor your aircraft battery's voltage before and after flying by using a Li-Po Cell Voltage Checker (EFLA111, sold separately).

Maintenance After Flying

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.
5. Repair or replace all damaged parts.
6. Store the flight battery apart from the aircraft and monitor the battery charge.
7. Make note of the flight conditions and flight plan results, planning for future flights.

Drop Tank Fairing Service

1. If installed, remove the wing from the fuselage, then remove the drop tank support frame and payload mount from the wing.
2. Remove 2 screws (A) from the top of the wing and the drop tank fairing (B).
3. Carefully remove the mount from the bottom of the wing. Paint may keep the mount attached to the wing.
4. Reassemble in reverse order.



Service of Power Components

Disassembly



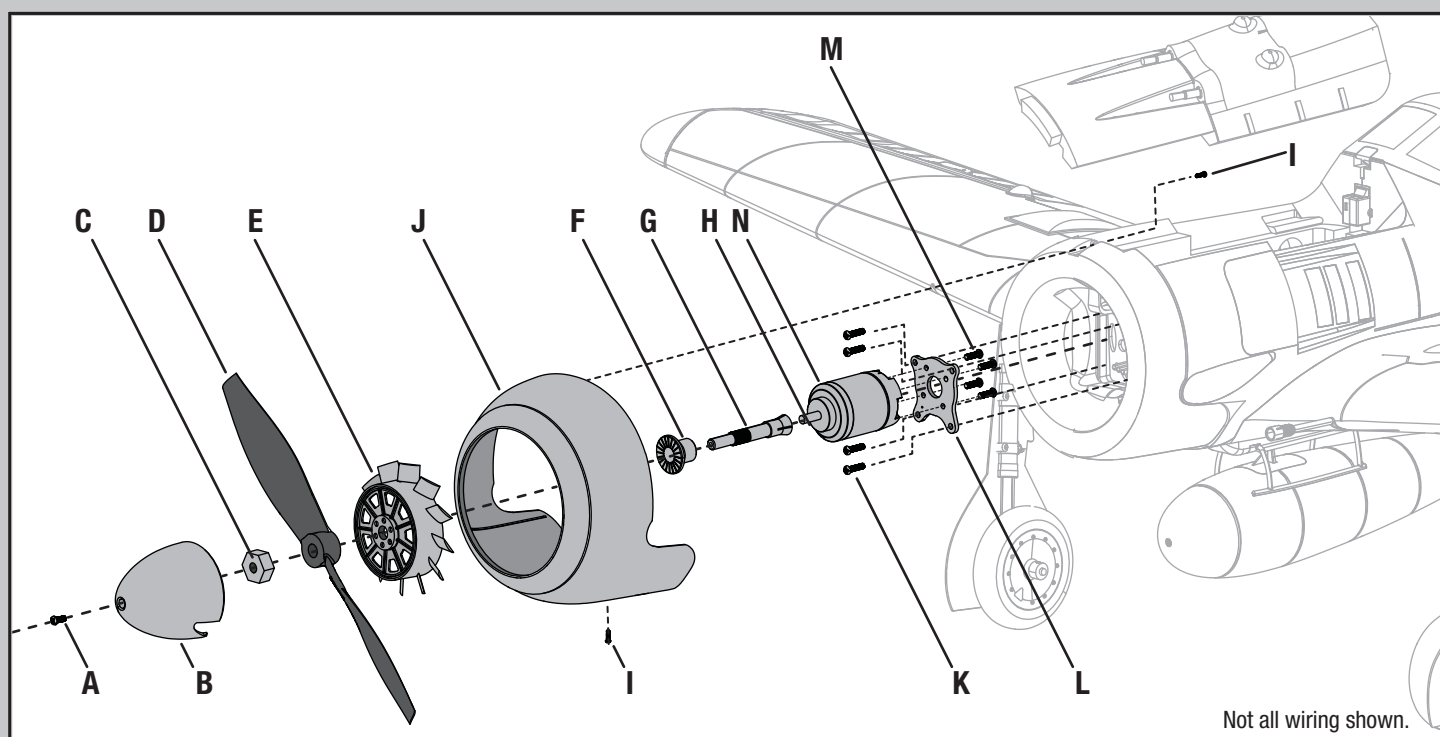
CAUTION: Always disconnect the flight battery from the aircraft before removing the propeller.

1. Remove the screw (A) and spinner (B) from the collet (G).
2. Remove the spinner nut (C), propeller (D), fan (E), backplate (F) and collet (G) from the motor shaft (H). You will need a tool to turn the spinner nut.
3. Remove the 2 screws (I) from the cowling (J). Carefully remove the cowling from the fuselage. Paint may keep the cowling attached to the fuselage.
4. Remove the 4 screws (K) from the motor mount (L) and the fuselage.
5. Disconnect the motor wires from the ESC wires.
6. Remove the 4 screws (M) and motor (N) from the motor mount.

Assembly

Assemble in reverse order.

- Correctly align and connect the motor wire colors with the ESC wires.
- The propeller size numbers (9.5 x 7.5) must face out from the motor for correct propeller operation.
- A tool is required to tighten the spinner nut on the collet.
- Ensure the spinner is fully connected to the fan for safe operation.



Not all wiring shown.

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).
3. Model aircraft will not be flown in AMA sanctioned events, air shows or model demonstrations unless:
 - (a) The aircraft, control system and pilot skills have successfully demonstrated all maneuvers intended or anticipated prior to the specific event.
 - (b) An inexperienced pilot is assisted by an experienced pilot.
4. When and where required by rule, helmets must be properly worn and fastened. They must be OSHA, DOT, ANSI, SNELL or NOCSAE approved or comply with comparable standards.

B. RADIO CONTROL

1. All pilots shall avoid flying directly over unprotected people, vessels, vehicles or structures and shall avoid endangerment of life and property of others.
2. A successful radio equipment ground-range check in accordance with manufacturer's recommendations will be completed before the first flight of a new or repaired model aircraft.
3. At all flying sites a safety line(s) must be established in front of which all flying takes place (AMA Document #706-Recommended Field Layout):
 - (a) Only personnel associated with flying the model aircraft are allowed at or in front of the safety line.
 - (b) At air shows or demonstrations, a straight safety line must be established.
 - (c) An area away from the safety line must be maintained for spectators.
 - (d) Intentional flying behind the safety line is prohibited.
4. RC model aircraft must use the radio-control frequencies currently allowed by the Federal Communications Commission (FCC). Only individuals properly licensed by the FCC are authorized to operate equipment on Amateur Band frequencies.
5. RC model aircraft will not operate within three (3) miles of any pre-existing flying site without a frequency-management agreement (AMA Documents #922-Testing for RF Interference; #923- Frequency Management Agreement)
6. With the exception of events flown under official AMA Competition Regulations, excluding takeoff and landing, no powered model may be flown outdoors closer than 25 feet to any individual, except for the pilot and the pilot's helper(s) located at the flight line.
7. Under no circumstances may a pilot or other person touch a model aircraft in flight while it is still under power, except to divert it from striking an individual. This does not apply to model aircraft flown indoors.
8. RC night flying requires a lighting system providing the pilot with a clear view of the model's attitude and orientation at all times.
9. The pilot of a RC model aircraft shall:
 - (a) Maintain control during the entire flight, maintaining visual contact without enhancement other than by corrective lenses prescribed for the pilot.
 - (b) Fly using the assistance of a camera or First-Person View (FPV) only in accordance with the procedures outlined in AMA Document #550.

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

Troubleshooting Guide

Problem	Possible Cause	Solution
Aircraft will not respond to throttle but responds to other controls	Throttle not at lowest position or throttle trim too high	Reset controls with throttle stick and throttle trim at lowest setting
	Throttle servo travel is lower than 100%	Make sure throttle servo travel is 100% or greater
	Throttle channel is reversed	Reverse throttle channel on transmitter
	Motor disconnected from ESC	Make sure motor is connected to the ESC
Extra propeller noise or extra vibration	Damaged propeller and spinner, collet or motor	Replace damaged parts
	Propeller is out of balance	Balance or replace propeller
	Prop nut is too loose	Tighten the prop nut
	Spinner is not tight or fully seated in place	Tighten the spinner or remove the spinner and turn it 180 degrees.
Reduced flight time or aircraft under-powered	Flight battery charge is low	Completely recharge flight battery
	Propeller installed backwards	Install propeller with numbers facing forward
	Flight battery damaged	Replace flight battery and follow flight battery instructions
	Flight conditions may be too cold	Make sure battery is warm before use
	Battery C rating is too low	Replace battery or use battery with correct C rating
Aircraft will not Bind (during binding) to transmitter	Transmitter too near aircraft during binding process	Move powered transmitter a few feet from aircraft, disconnect and reconnect flight battery to aircraft
	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
	The bind plug is not installed correctly in the bind port	Install bind plug in bind port and bind the aircraft to the transmitter
	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
Aircraft will not connect (after binding) to transmitter	Transmitter too near aircraft during connecting process	Move powered transmitter a few feet from aircraft, disconnect and reconnect flight battery to aircraft
	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
	Bind plug left installed in bind port	Rebind transmitter to the aircraft and remove the bind plug before cycling power
	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 using different DSM protocol	Bind aircraft to transmitter
Control surface does not move	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
	Transmitter is not bound correctly or the incorrect model was selected	Re-bind or select correct model 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
Motor power pulses then motor loses power	ESC uses default soft Low Voltage Cutoff (LVC)	Recharge flight battery or replace battery that is no longer performing
	Weather conditions might be too cold	Postpone flight until weather is warmer
	Battery is old, worn out, or damaged	Replace battery
	Battery C rating might be too small	Use recommended battery

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. Our 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 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.

Warranty and Service Contact Information

Country of Purchase	Horizon Hobby	Address	Phone Number/Email Address
United States of America	Horizon Service Center (Air)	4105 Fieldstone Rd Champaign, Illinois 61822 USA	888-959-2305 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	11 Rue Georges Charpak 77127 Lieusaint, France	+33 (0) 1 60 18 34 90 infofrance@horizonhobby.com
China	Horizon Hobby – China	Room 506, No. 97 Changshou Rd. Shanghai, China, 200060	+86 (021) 5180 9868 info@horizonhobby.com.cn

Compliance Information for the European Union

Declaration of Conformity

(in accordance with ISO/IEC 17050-1)

No. HH2013041301U1

Product(s): PKZ Focke-Wulf 190A BNF Basic
Item Number(s): PKZ6250
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:

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



Signed for and on behalf of:
Horizon Hobby, Inc.
Champaign, IL USA
Apr 13, 2013

Steven A. Hall
Executive Vice President and Chief Operating Officer
International Operations and Risk Management
Horizon Hobby, Inc.

Declaration of Conformity

(in accordance with ISO/IEC 17050-1)

No. HH2013041302

Product(s): PKZ Focke-Wulf 190A PNP
Item Number(s): PKZ6275
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 EMC Directive 2004/108/EC:

EN55022:2010 + AC:2011
EN55024:2010



Signed for and on behalf of:
Horizon Hobby, Inc.
Champaign, IL USA
Apr 13, 2013

Steven A. Hall
Executive Vice President and Chief Operating Officer
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.

Parts Contact Information • Kontaktinformationen für Ersatzteile • Coordonnées pour obtenir des pièces détachées • Recapiti per i ricambi

Country of Purchase	Horizon Hobby	Address	Phone Number/Email Address
United States of America	Sales	4105 Fieldstone Rd Champaign, Illinois 61822 USA	888-959-2305 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	11 Rue Georges Charpak 77127 Lieusaint, France	+33 (0) 1 60 18 34 90 infofrance@horizonhobby.com
China	Horizon Hobby – China	Room 506, No. 97 Changshou Rd. Shanghai, China, 200060	+86 (021) 5180 9868 info@horizonhobby.com.cn

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

Part # Nummer Numéro Codice	Description	Beschreibung	Description	Descrizione
PKZ1012	Propeller 9.5 x 7.5	Propeller 9.5 x 7.5	Hélice 9.5 x 7.5	Elica 9.5 x 7.5
PKZ6201	Spinner and Fan: FW-190A	Parkzone FW-190A: Spinner m. Lüfter u. Rückplatte	Cône et turbine : FW-190A	Ogiva e ventola: FW-190A
PKZ6202	Decal Sheet: FW-190A	Parkzone FW-190A: Derkorbogen	Planche de décoration : FW-190A	Foglio con decalcomanie: FW-190A
PKZ6203	Main Landing Gear Set: FW-190A	Parkzone FW-190A: Hauptfahrwerk	Train d'atterrissage : FW-190A	Set carrello retrattile principale: FW-190A
PKZ6207	Tailwheel: FW-190A	Parkzone FW-190A: Spornrad	Roulette de queue : FW-190A	Ruotino coda: FW-190A
PKZ6208	Drop Tank Mount/Cover: FW-190A	Parkzone FW-190A: Halter f. Abwurf tank	Support de réservoir largable : FW-190A	Supporti per serbatoio aux: FW-190A
PKZ6209	Drop Tank: FW-190A	Parkzone FW-190A: Abwurf tank	Réservoir largable : FW-190A	Serbatoio aux: FW-190A
PKZ6212	Battery Hatch: FW-190A	Parkzone FW-190A: Akkuklappe	Capot de compartiment à batterie : FW-190A	Portello batteria: FW-190A
PKZ6213	Canopy w/Pilot: FW-190A	Parkzone FW-190A: Kabinenhaube m. Pilot	Cockpit avec pilote : FW-190A	Capottina con pilota: FW-190A
PKZ5116	15 BL Outrunner Motor, 950Kv	15BL Außenläufer 950Kv: Extra 300	Moteur brushless à cage tournante 15, 950kv	15 BL motore cassa rotante; 950KV
PKZ5104	Motor Shaft 15 BL 950Kv	Parkzone 15 Aussenläufer: Motorwelle	Axe moteur 15 BL	Albero motore per 15 cassa rotante
PKZ6220	Painted Wing: FW-190A	Parkzone FW-190A: Tragfläche lackiert	Aile peinte: FW-190A	Ala verniciata: FW-190A
PKZ6222	Pushrod Set: FW-190A	Parkzone FW-190A: Schubstangen-Set	Jeu de tringleries : FW-190A	Set asta di spinta: FW-190A
PKZ6225	Horizontal Stab: FW-190A	Parkzone FW-190A: Höhenleitwerk	Stabilisateur horizontal: FW-190A	Stabilizzatore orizzontale: FW-190A
PKZ6226	Painted Cowl: FW-190A	Parkzone FW-190A: Motorhaube lackiert	Capot peint : FW-190A	Capottina motore verniciata: FW-190A
PKZ6235	Servo Wire Tape: FW-190A	Parkzone FW-190A: Servokabeltape	Adhésif de masquage des câbles : FW-190A	Nastro per fili servo: FW-190A
PKZ6267	Painted Bare Fuse: FW-190A	Parkzone FW-190A: Rumpf o. Einbauten	Fuselage peint, nu : FW-190A	Solo fusoliera verniciata: FW-190A
PKZ6270	Replacement Airframe: FW-190A	Parkzone FW-190A: Rumpf	Structure de remplacement	Telaio ricambio
PKZ1081	SV80 Long Lead 3-Wire Servo	Parkzone SV80 Servo mit langem Kabel	Servo 3 câbles grande longueur SV80	SV80 servo a 3 fili a terminale lungo
PKZ1090	DSV130 digital, metal gear	DSV130 Digitalservo MG	DSV130 digital, pignons métal	DSV130 digitale, ingranaggi in metallo
EFLA1030BC	30-Amp Pro SB Brushless ESC	30A Pro SB Regler	Contrôleur 30A Pro SB	30-Amp Pro SB Brushless ESC
SPMAR610	AR610 6-Channel Sport DSM2/DSMX Receiver	Spektrum AR610 DSMX 6 Kanal Sport Empfänger	Récepteur AR610 6 voies DSM2/DSMX	AR610 6-canali Sport DSM2/DSMX ricevitore

Optional Parts • Optionale Bauteile • Pièces optionnelles • Pezzi opzionali

Part # Nummer Numéro Codice	Description	Beschreibung	Description	Descrizione
PKZ5101	Propeller 10.5 X 9: EXTRA 300	Propeller 10.5 x 9: Extra 300	Hélice 10.5X9	Elica 10.5 X 9: EXTRA 300
EFLA250	Park Flyer Tool Assortment, 5 pc	E-flite Park Flyer Werkzeugsortiment; 5 teilig	Assortiment d'outils park flyer, 5pc	Park Flyer assortimento attrezzi, 5 pc
EFLAEC302	EC3 Battery Connector (2)	E-flite EC3 Akkukabel, Buchse (2)	Prises EC3 coté batterie (2)	Connettore batteria
EFLAEC303	EC3 Device/Battery Connector	E-flite EC3 Kabelsatz, Stecker/Buchse	Prises EC3 coté contrôleur (2)	Connettore batteria/dispositivo
PKZ1029	11.1V 3S 25C 2200MAH Li-Po	11.1V 3S 25C 2200mAh LiPo	11.1V 3S 25C 2200MAH Li-Po	11.1V 3S 25C 2200MAH Li-Po
PKZ1040	2-3 DC Li-Po Balancing Charger	ParkZone 12V 2-3S LiPo Balancer Lader	Chargeur équilibreur 2-3S Li-Po	2-3 DC Li-Po Caricabatterie con bilanciatore
EFLA111	Li-Po Cell Voltage Checker	E-flite Li-Po Cell Volt Checker	Contrôleur de tension Li-Po	Controllo tensione batteria LiPo
EFLC505	1- To 5-cell Li-Po battery charger with balancer	E-flite 1-5 Zellen Lipo Lader mit Balancer	Chargeur équilibreur Li-Po de 1 à 5S	Caricabatterie con bilanciatore per LiPo 1-5 celle
EFLC3025	Celectra 80W AC/DC Multi-Chemistry Battery Charger	E-flite 80W AC/DC Multi-Akku Ladegerät - EU	Chargeur de batterie AC/DC Celectra 80 W multi-types	Caricabatterie per batteria multichimica 80 W c.a./c.c.
EFLC3020	200W DC multi-chemistry battery charger	E-flite 200W DC Multi-Akku Ladegerät	Chargeur multiple DC 200W	200W DC Caricabatterie universale
EFLC4010	Celectra 15VDC 250W Power Supply	E-flite 15VDC 250W Netzteil - EU	Alimentation Celectra CC 15 V 250 W	Alimentatore Celectra 15V c.c., 250 W
DYN1405	Li-Po Charge Protection Bag, Large	Dynamite LiPoCharge Protection Bag groß	Sac de charge Li-Po, grand modèle	Busta protezione grande per LiPo
DYN1400	Li-Po Charge Protection Bag, Small	Dynamite LiPoCharge Protection Bag klein	Sac de charge Li-Po, petit modèle	Busta protezione piccola per LiPo
	DX4e DSMX 4-Channel Transmitter	Spektrum DX4e DSMX 4 Kanal Sender ohne Empfänger	Emetteur DX4e DSMX 4 voies	DX4e DSMX Trasmettitore 4 canali
	DX5e DSMX 5-Channel Transmitter	Spektrum DX5e DSMX 5 Kanal Sender ohne Empfänger	Emetteur DX5e DSMX 5 voies	DX5e DSMX Trasmettitore 5 canali
	DX6i DSMX 6-Channel Transmitter	Spektrum DX6i DSMX 6-Kanal Sender	Emetteur DX6i DSMX 6 voies	DX6i DSMX Trasmettitore 6 canali
	DX7s DSMX 7-Channel Transmitter	Spektrum DX7s DSMX 7 Kanal Sender	Emetteur DX7s DSMX 7 voies	DX7s DSMX Trasmettitore 7 canali
	DX8 DSMX 8-Channel Transmitter	Spektrum DX8 DSMX 8 Kanal Sender	Emetteur DX8 DSMX 8 voies	DX8 DSMX Trasmettitore 8 canali
	DX18/DX18QQ DSMX 18-Channel Transmitter	Spektrum DX18/ DX18QQ DSMX 18 Kanal Sender	Emetteur DX18/DX18QQ DSMX 18 voies	DX18/DX18QQ DSMX Trasmettitore 18 canali

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