F4U Corsair S

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

SAFE™

RTF READY-TO-FLY

BNF™ Bind-N-Fly.® Ready to fly, redefined.

hobbyzone®
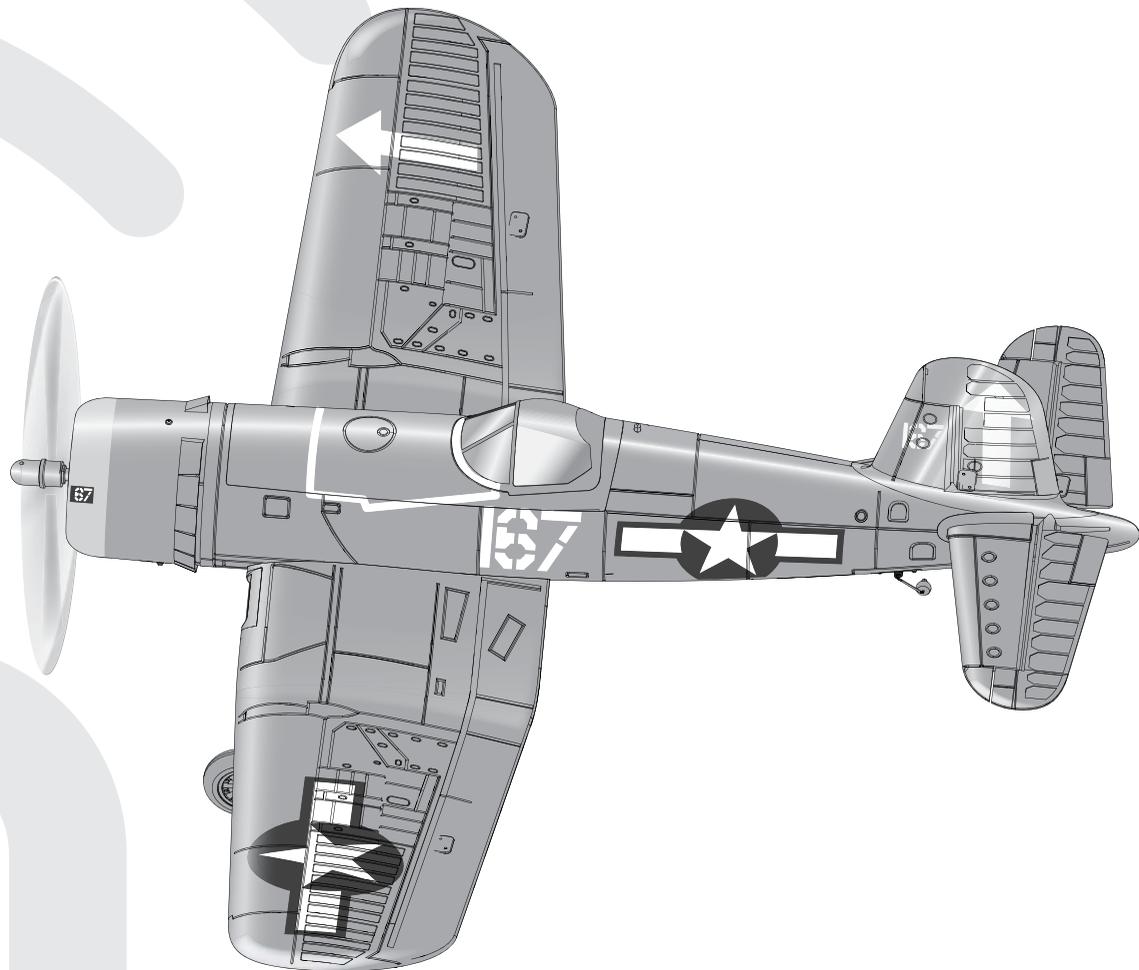
NOTICE

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 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, 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.

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

WARNING AGAINST COUNTERFEIT PRODUCTS: If you ever need to replace a Spektrum component found in a Horizon Hobby product, always purchase from Horizon Hobby, LLC or a Horizon Hobby authorized dealer to ensure authentic high-quality Spektrum product. Horizon Hobby 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.

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.

Charging Warnings

CAUTION: All instructions and warnings must be followed exactly. Mishandling of Li-Po batteries can result in a fire, personal injury, and/or property damage.
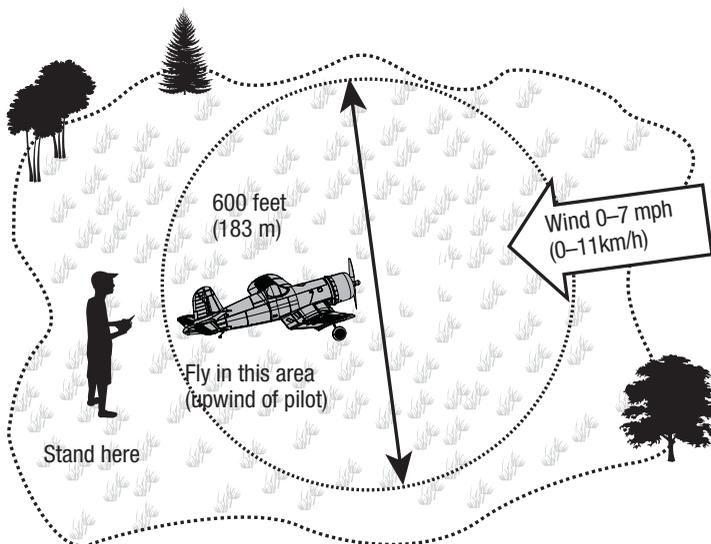
- By handling, charging or using the included Li-Po battery, you assume all risks associated with lithium batteries.
- If at any time the battery begins to balloon or swell, discontinue use immediately. If charging or discharging, discontinue and disconnect. Continuing to use, charge or discharge a battery that is ballooning or swelling can result in fire.
- Always store the battery at room temperature in a dry area for best results.
- Always transport or temporarily store the battery in a temperature range of 40–120º F (5–49º C). Do not store battery or aircraft in a car or direct sunlight. If stored in a hot car, the battery can be damaged or even catch fire.
- Always charge batteries away from flammable materials.
- Always inspect the battery before charging and never charge dead or damaged batteries.

- Always disconnect the battery after charging, and let the charger cool between charges.
- Always constantly monitor the temperature of the battery pack while charging.
- ONLY USE A CHARGER SPECIFICALLY DESIGNED TO CHARGE LI-PO BATTERIES. Failure to charge the battery with a compatible charger may cause fire resulting in personal injury and/or property damage.
- Never discharge Li-Po cells to below 3V under load.
- Never cover warning labels with hook and loop strips.
- Never leave charging batteries unattended.
- Never charge batteries outside recommended levels.
- Never attempt to dismantle or alter the charger.
- Never allow minors under the age of 14 to charge battery packs.
- Never charge batteries in extremely hot or cold places (recommended between 40–120° F or 5–49° C) or place in direct sunlight.

Included in the Box

RTF
READY-TO-FLY
Includes Transmitter
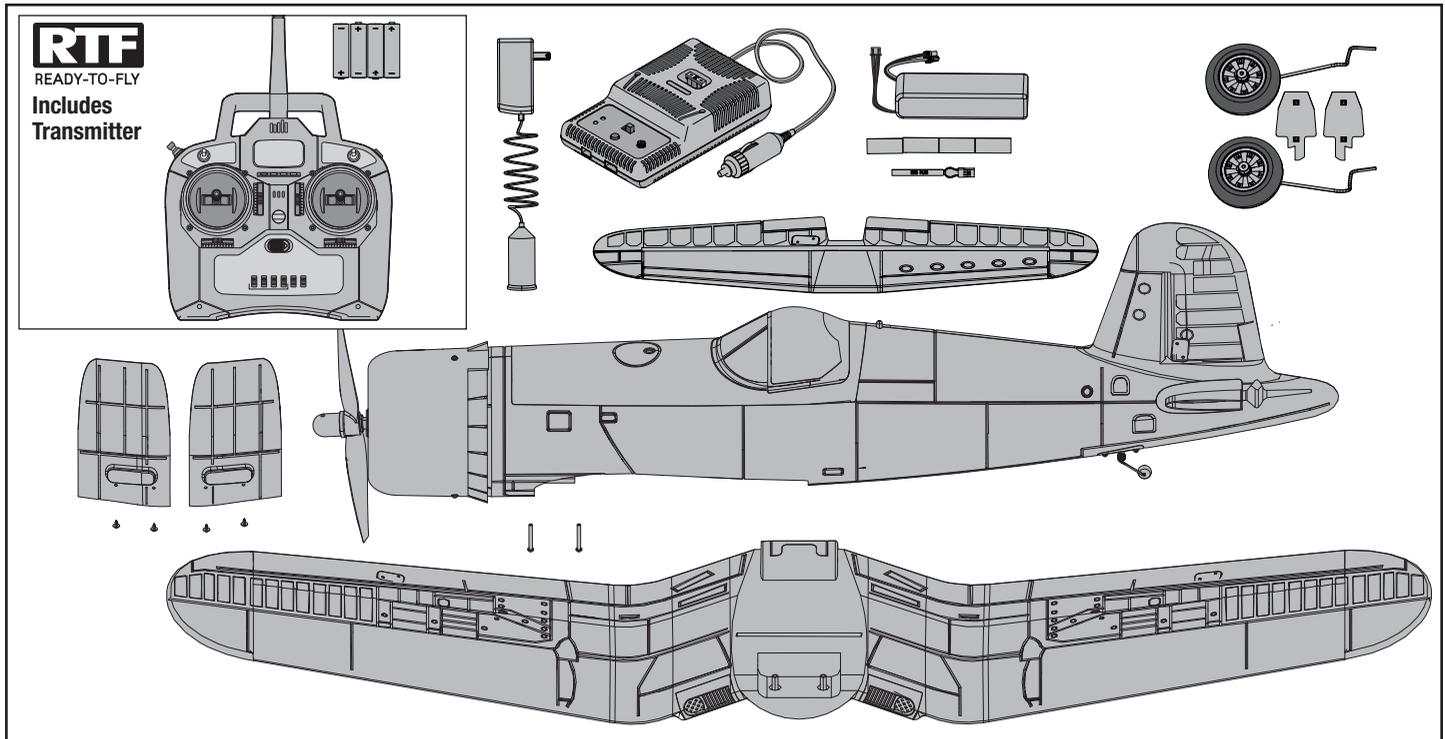
For more information and to register your product online, visit www.hobbyzonerc.com

600 feet (183 m)

Wind 0–7 mph (0–11km/h)

Fly in this area (upwind of pilot)

Stand here

Flying Tips

- Sensor Assisted Flight Envelope (SAFE™) technology is designed as flight assistance, not an autopilot. The pilot is always in control and required to fly the aircraft at all times.
- Start in Beginner mode (SAFE switch position 0). As you learn and become more confident, change modes to advance your flying skills.
- Always keep your aircraft in plain sight and upwind from you.
- Do not attempt your first turn at low altitude. Higher altitudes allow for greater possibility of correction.
- Always make deliberate and steady control stick movements for smooth control of your aircraft.

Preflight Checklist	✓
1. Find a safe and open area.	
2. Charge flight battery.	
3. Install flight battery in aircraft.	
4. Perform Control Direction Test.	
5. Plan flight for flying field conditions.	
6. Have fun!	

Charging the Flight Battery

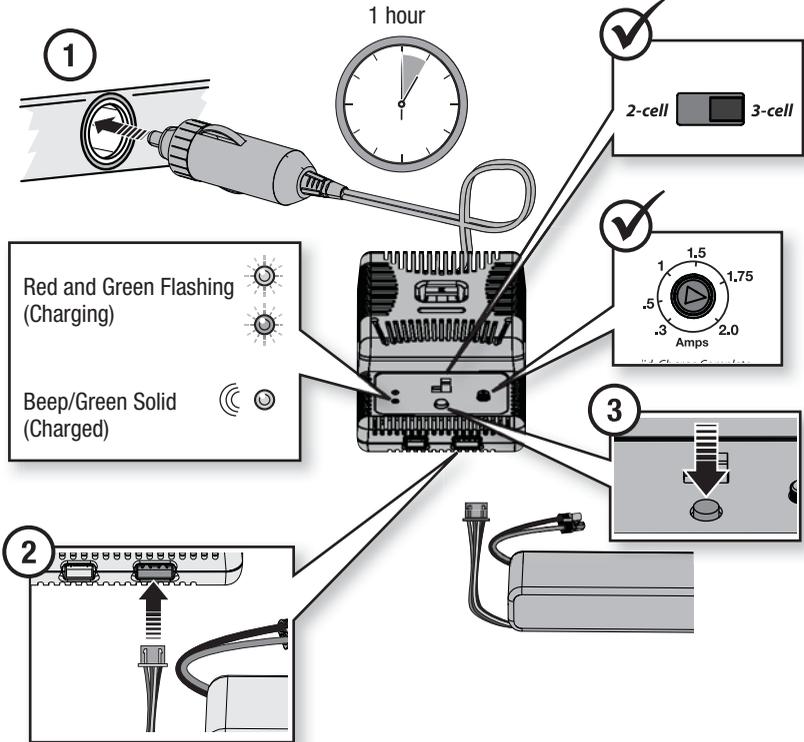⚠ **CAUTION:** never exceed the recommended charge rate.

Charger features
• Charges 2- to 3-cell lithium polymer battery packs
• Variable charge rates from 300mAh to 2-amp
• Simple single push-button operation
• LED charge status indicator
• LED cell balance indicator
• Audible beeper indicates power and charge status
• 12V accessory outlet input cord

Charger Specifications
• Input power: 10.5–15V DC, 3-amp
• Balances and charges 2 to 3S Li-Po cells with a minimum capacity of 300mAh

This charger may be connected to the AC power supply (included with your model).

1 hour

2-cell   3-cell

Red and Green Flashing (Charging)

Beep/Green Solid (Charged)

1.5
1   1.75
.5
.3   2.0
Amps

① ② ③
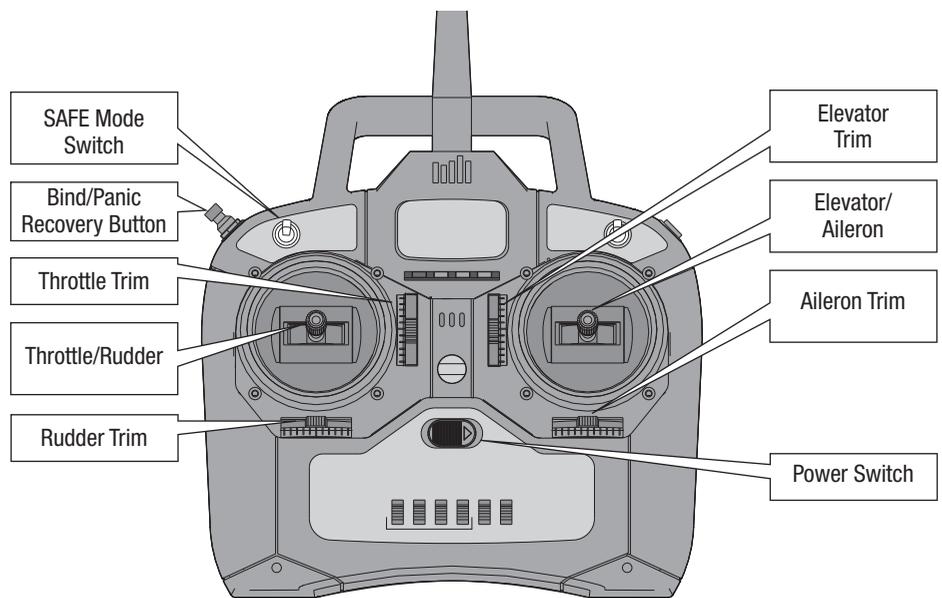
RTF
READY-TO-FLY

DX4e Transmitter

Remove the battery cover, install the four included batteries (noting proper polarity) and reinstall the battery cover.
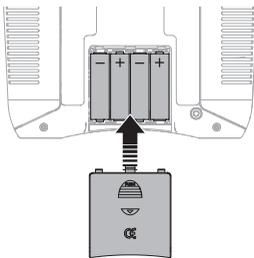
Low Battery Alarm

When the battery voltage drops below 4.7 volts, an alarm sounds and the voltage LEDs flash. The batteries must be replaced immediately. If this happens while flying, land your aircraft as soon and as safely as possible.

⚠ **WARNING:** Do not pick up the transmitter by the antenna. Do not alter or put weight on the antenna. Damage to antenna parts can decrease transmitter signal strength, which can result in loss of model control, injury or property damage.

SAFE Mode Switch

Bind/Panic Recovery Button

Throttle Trim

Throttle/Rudder

Rudder Trim

Elevator Trim

Elevator/ Aileron

Aileron Trim

Power Switch

Mode 2 shown

For more information on the transmitter, go to www.horizonhobby.com/products/SPMR4400 and click on the support tab for the Spektrum DX4e to download the instruction manual.
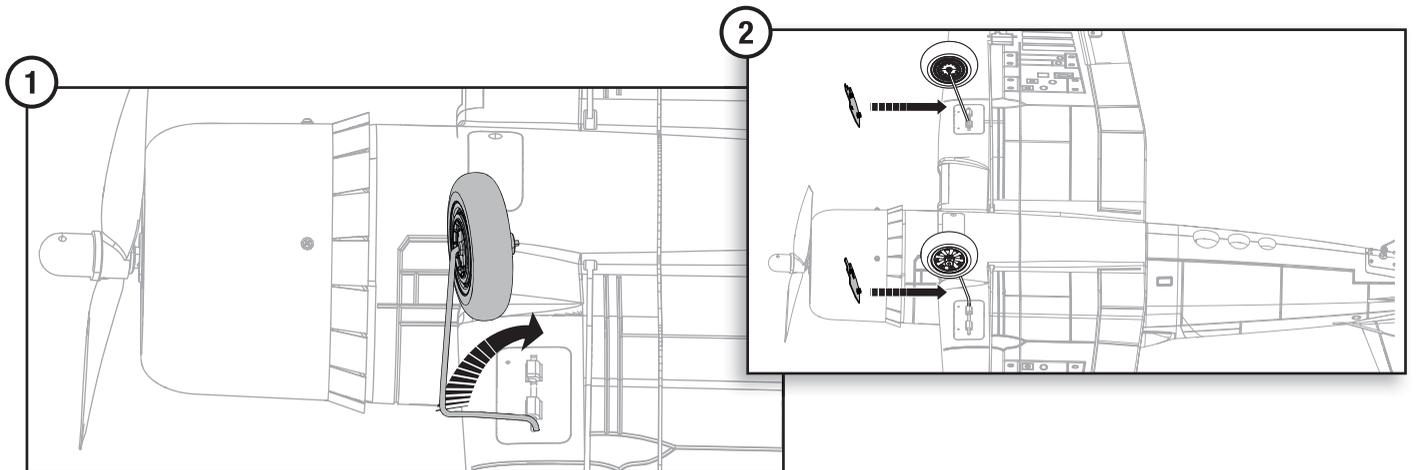
Assembly

Wing Installation

The left and right aileron servos can be connected to either side of the Y-harness.

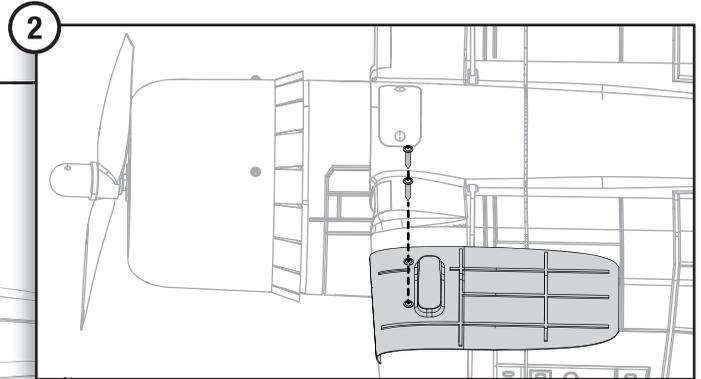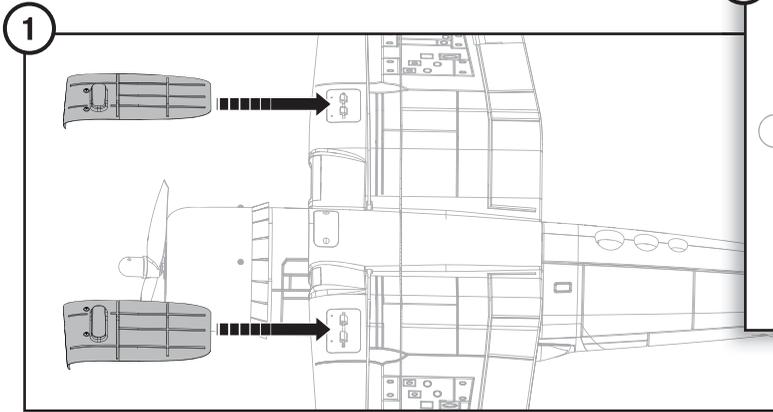**IMPORTANT**: Correct operation of the SAFE system requires connection of both ailerons to the included Y-harness and the AILE channel of the receiver.
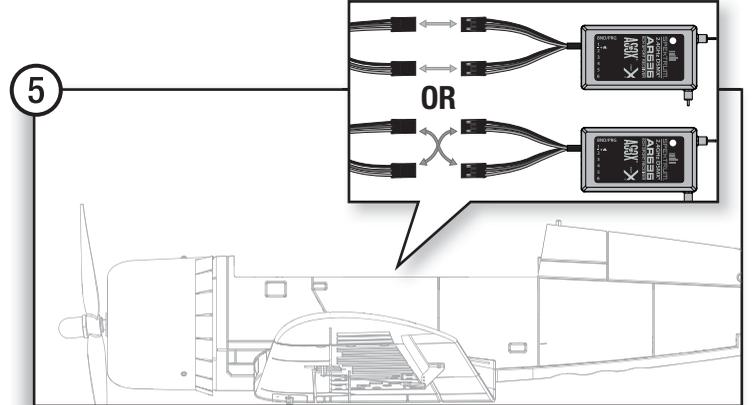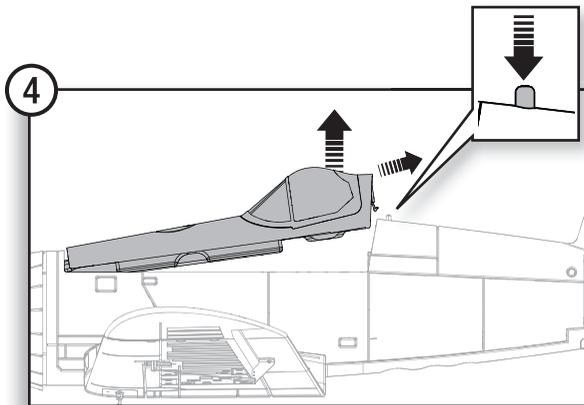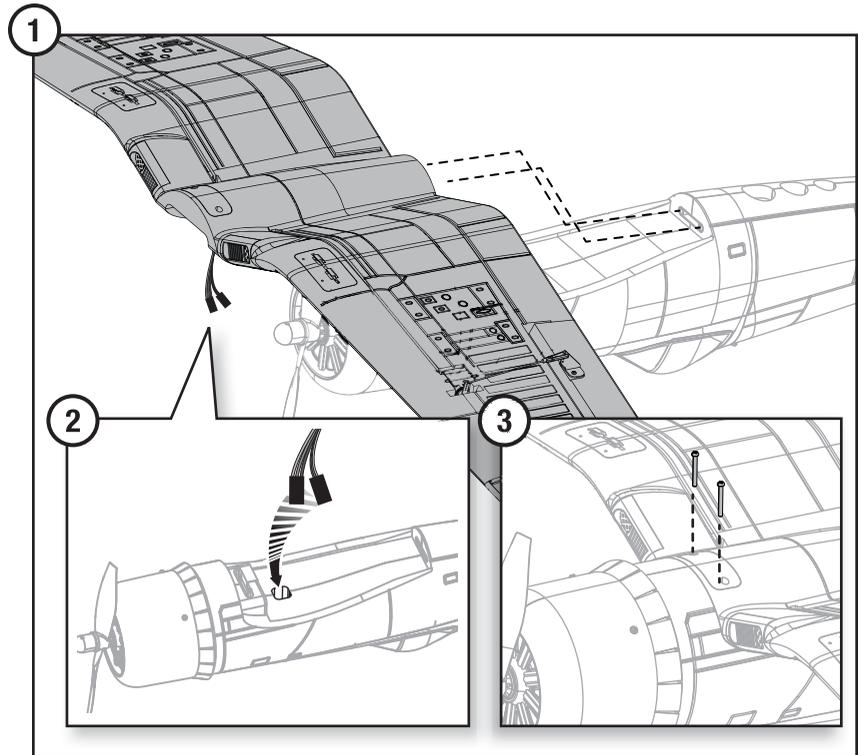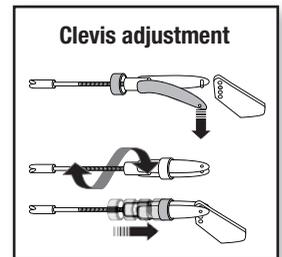
Landing Gear Installation

Assembly

Landing Skid (Optional)

1

2

NOTICE: Do not apply double-stick tape to the skids, or removing them will damage the paint.

Tail Installation

1

2

3 — **Rudder and Elevator Control Linkage Install**

Clevis adjustment
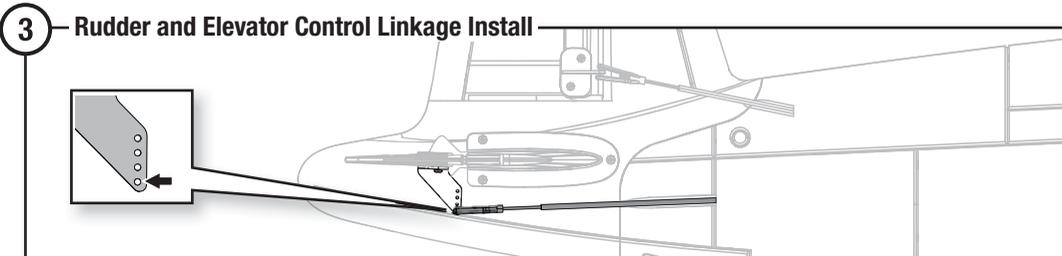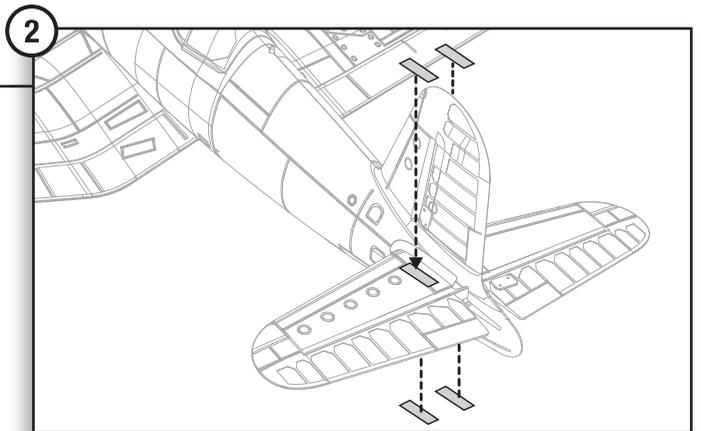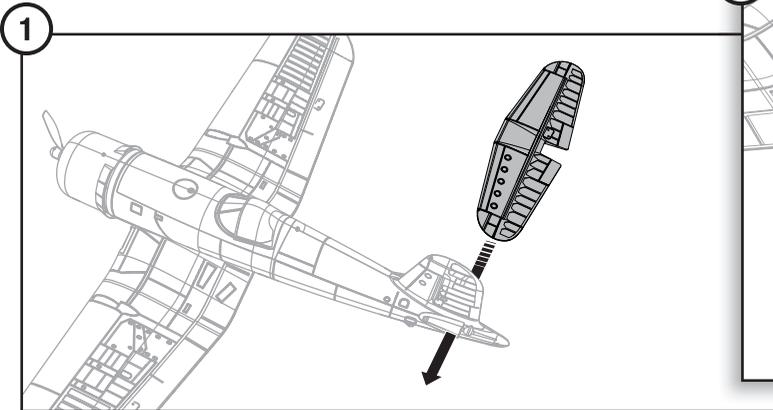
Control horn and servo arm settings

The Illustration shows recommended hole settings in the servo arms and control horns.

	Elevator	Ailerons	Rudder
Arms			
Horns			

Installing the Flight Battery and Arming The ESC

⚠ **CAUTION:** Always disconnect the Li-Po flight 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.

Keep immobile and out of the wind for 5 seconds
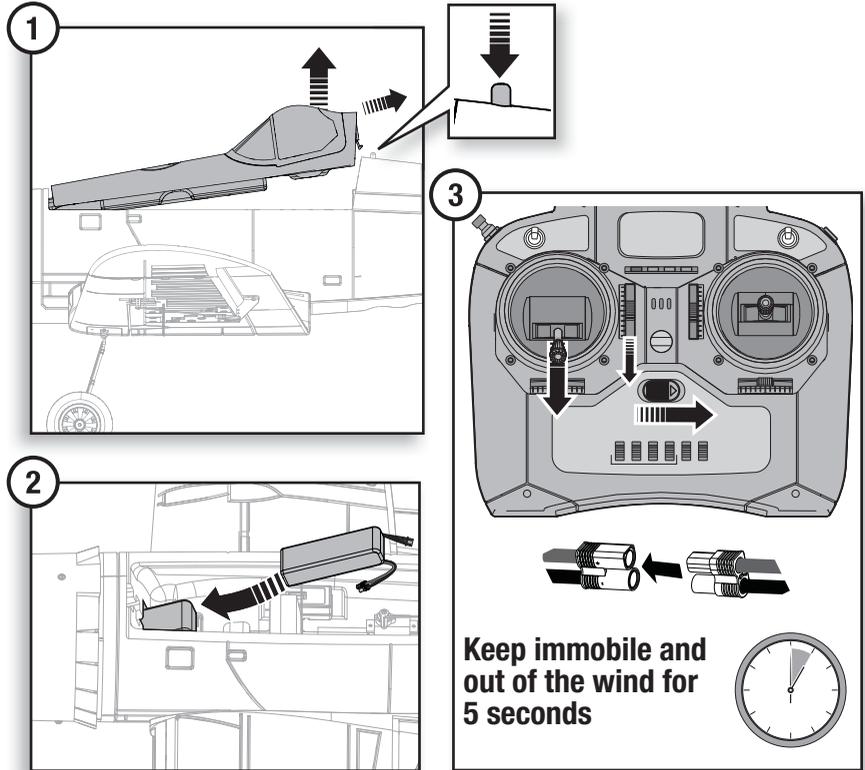
Transmitter Binding

IMPORTANT: The included AR636 receiver has been programmed for operation only in this aircraft.

RTF
READY-TO-FLY

The included RTF transmitter should be bound to the aircraft at the factory, but if you need to re-bind, follow the binding procedure as shown.

BNF

You need to 'bind' your chosen Spektrum™ DSM2®/ DSMX® technology equipped aircraft transmitter to the receiver for proper operation. Please refer to the optional parts list in this manual or visit www.bindnfly.com for a list of compatible transmitters.

Refer to your transmitter instructions for binding to a receiver.

✓	Binding Procedure Reference Table
1.	Make sure the transmitter is powered off.
2.	Make sure the transmitter controls are neutral, the throttle and throttle trim are in the lowest position, and the aircraft is immobile.
3.	Install bind plug in the receiver bind port.
4.	Connect the flight battery in the aircraft. The receiver LED will begin to flash.
5.	Power on the transmitter while holding the transmitter bind button.
6.	When the receiver binds to the transmitter, the light on the receiver will turn solid. The motor will arm with throttle and throttle trim at the lowest position.
7.	Release the Bind button and remove the bind plug from the receiver.
8.	Disconnect the flight battery from the aircraft, then power off the transmitter.
The receiver should retain the binding instructions received from the transmitter until another binding is done.	

BIND PLUG

SPEKTRUM.
2.4GHz DSMX®
AR636
6CH SPORT RECEIVER
AS3X

Range Test

Before each flying session, and especially with a new model, you should perform a range check. Refer to your transmitter manual for more information.

90 ft
(28 m)
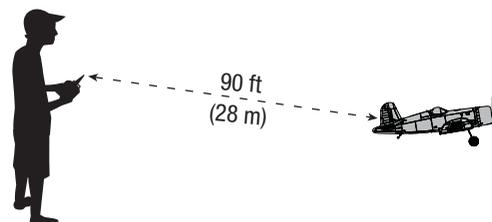
Control Direction Test

Perform the Control Direction Test with the transmitter SAFE flight mode switch set to **Experienced** mode (position 2).
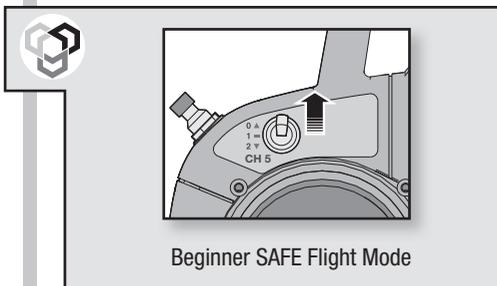
Experienced SAFE
Flight Mode
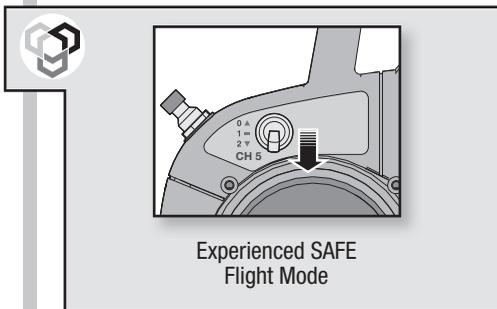
Restrain the aircraft so it does not escape your control while you are testing your transmitter controls.

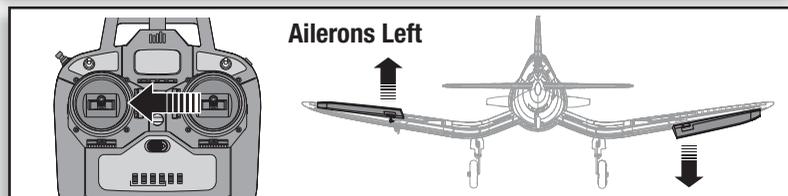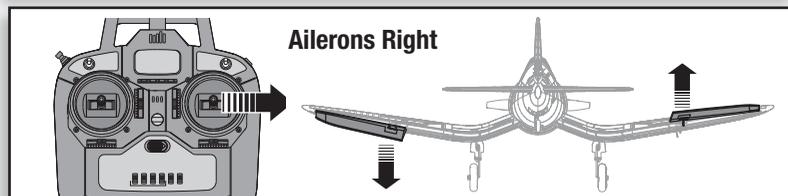Move the sticks on the transmitter* to ensure the aircraft responds as shown.

If your model does not respond as shown, DO NOT FLY! Refer to the Troubleshooting Guide in this manual for more information. If you need more assistance, contact the appropriate Horizon Hobby Product Support department.

If the aircraft responds as shown, move the SAFE flight mode switch to **Beginner** mode (position 0) to prepare to fly.

Beginner SAFE Flight Mode

* Mode 2 transmitter shown. For Mode 1, Elevator control is on the LEFT stick.

Up Elevator (climb)

Down Elevator (descend)

Rudder Right

Rudder Left

Ailerons Right

Ailerons Left
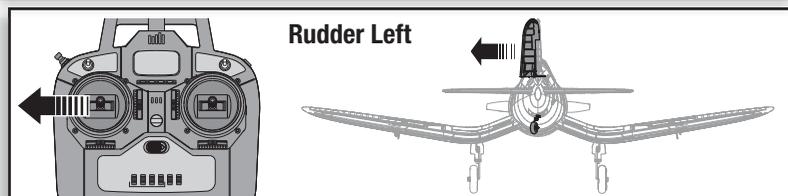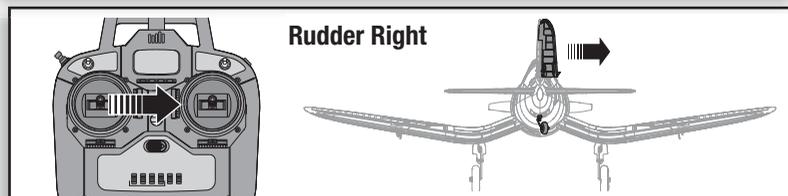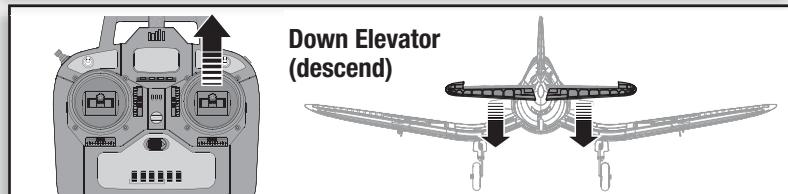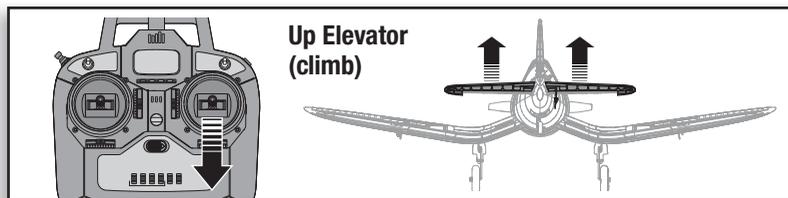
Center of Gravity (CG)

An aircraft with correct CG has its weight balanced on the center of the aircraft for safe, stable flight.

Tip: Balance the aircraft on your fingertips near the fuselage under the wings.

- If the nose goes down, move the flight battery back until the aircraft balances.
- If the nose goes up, move the flight battery forward until the aircraft balances.

Adjust the battery position as needed.

64mm
2.50 inches back from the leading edge of the wing at the root.
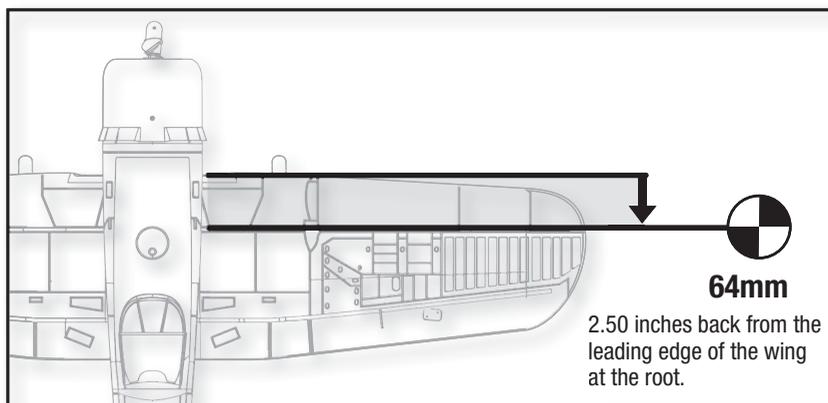
Trimming

Manually Adjusting Trim

Perform manual adjustment of trim before increasing the throttle above 25% or the control surfaces will move when the aircraft is moved.

Return any trim setting on the transmitter to neutral by pushing the trim slider to the middle position, then adjusting the clevis on that control surface to position it the same as it was with the trim slider offset.

1. Remove the clevis from the control horn.
2. Turn the clevis (as shown) to lengthen or shorten the pushrod.
3. Close the clevis onto the control horn and slide the tube towards the horn to secure the clevis.
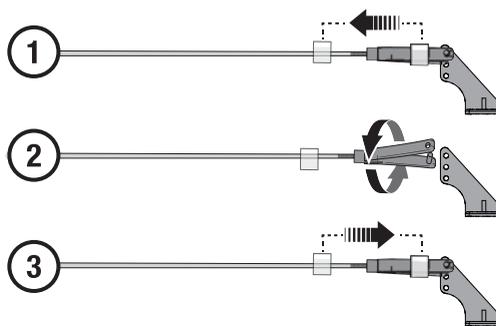
Adjusting Trim in flight

If your aircraft does not fly straight and level at half throttle with the steering stick at center, fly into the wind and move the trim sliders.

After adjusting transmitter trim in the air or on the ground, do not touch the control sticks for 2 seconds. This allows the receiver to learn the correct settings to optimize SAFE system performance. Failure to do so could affect flight performance.

	Aircraft drift	Required Trim
Elevator		
Rudder		
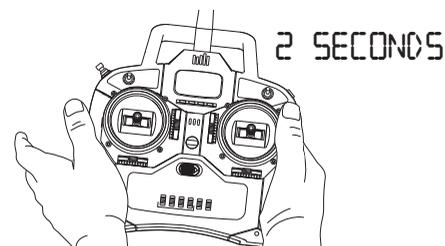
|	Aircraft drift	Required Trim
Ailerons		

2 SECONDS

Takeoff

Hand Launch

Hand launch in Beginner mode for first flights. Get help to hand launch your aircraft so you can concentrate on flying. If you must hand launch the aircraft alone, hold the model in your dominant hand and the transmitter in your other hand. An optional neck strap (SPMP610, sold separately) can help you hold the transmitter.
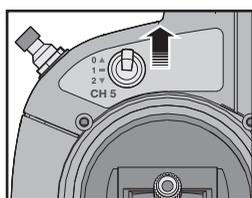
Beginner Mode
(SAFE Switch Position 0)
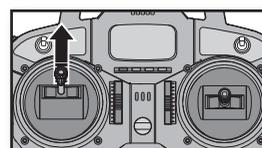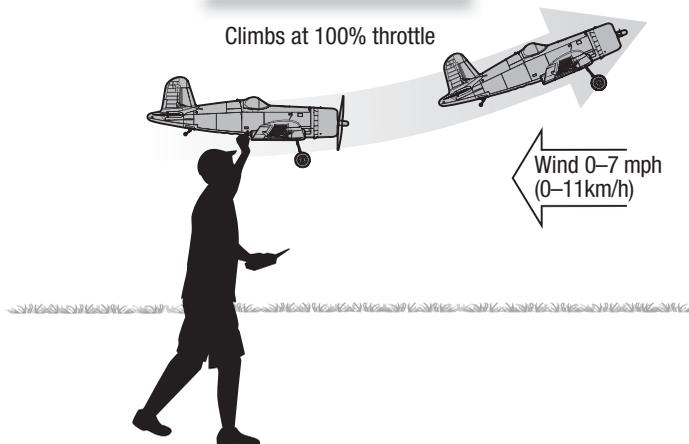
Easy Launching

Launching is easier in Beginner mode if you hold the Panic Recovery button. Press and hold the button, then increase the throttle to 100%. Launch the aircraft. When the aircraft is up where you want to fly, release the button and decrease the throttle to 50–60%.

Climbs at 100% throttle

Wind 0–7 mph
(0–11km/h)
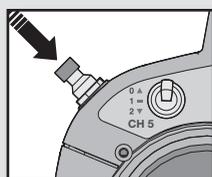
Takeoff (continued)

Ground Launch

Use the Beginner mode for takeoff in first flights. If the ground is not hard and level, get help to hand launch your aircraft.

Tip: On the ground, use rudder control to keep the aircraft rolling straight.

Gently pull back on the elevator stick to lift off of the ground

Wind 0–7 mph (0–11km/h)

←——— 30 ft (10 m) ———→
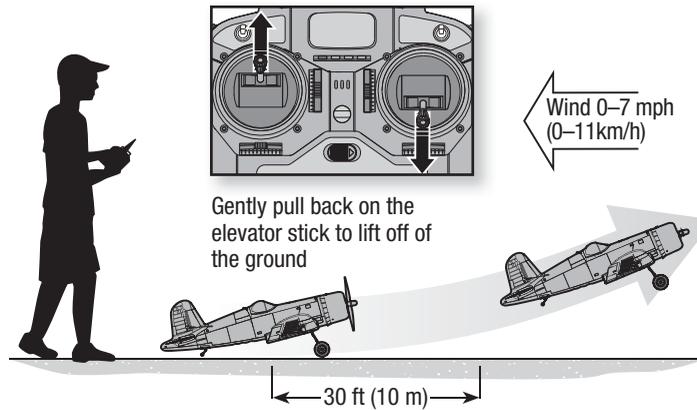
Flying

In Beginner mode, when properly trimmed, your aircraft will climb at full throttle without use of the elevator stick.

- The aircraft flies 7 minutes or more on a battery charge, using proper throttle management.

- If the motor pulses, land the aircraft immediately and recharge the flight battery.

- Let the aircraft climb at full throttle, into the wind, until the aircraft gets about 150 feet (46 meters) above the ground, then decrease the throttle to half (50%).

- Flying with the nose pointed toward you is one of the hardest things to do when learning to fly. To practice piloting the aircraft, try flying in large circles high off the ground.

Full throttle   **50% throttle**   **Reduced throttle**
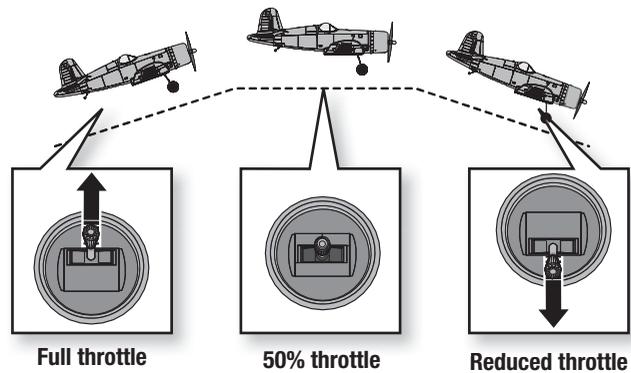
SAFE™ Technology Flight Modes

Beginner Mode:

Pitch (nose up and down) and Roll (wing tips up and down) angles are limited to help you keep the aircraft airborne.

Self-leveling

Intermediate Mode:

The pilot is only prevented from entering extreme flight conditions.

Experienced Mode:

Unlimited Flight Envelope

#### Panic Recovery Mode

If you feel you have lost control in any mode, hold the Panic Recovery button. The SAFE technology will return the aircraft to a stable attitude (wings level with a slight climb). Always fly at a safe altitude, as Panic Recovery may cause the aircraft to lose some altitude when leveling the wings. Release the Panic Recovery button to turn off Panic mode and return to the current SAFE flight mode.

CH 5

Pitch   **Roll**
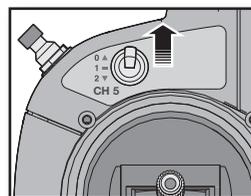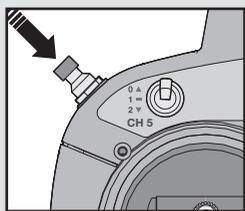
Beginner Mode
(Switch Position 0)

CH 5

Pitch   **Roll**
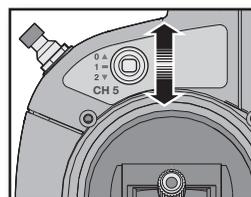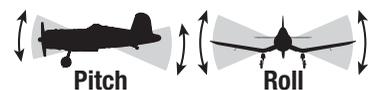
Intermediate Mode
(Switch Position 1)

CH 5

Pitch   **Roll**
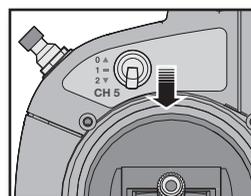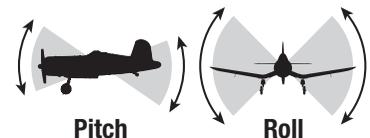
Experienced Mode
(Switch Position 2)
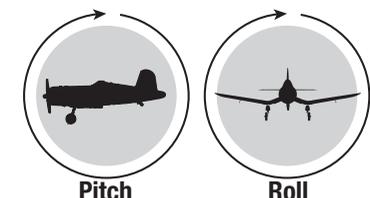
NOTICE: If the aircraft is upside down when the Panic Recovery button is pressed, sufficient altitude is required for the aircraft to return to straight and level flight.

Low Voltage Cutoff (LVC)

NOTICE: Repeated flying to LVC will damage the battery.

For your first flights, set a timer for 7 minutes to avoid flying to LVC. Adjust your timer for longer or shorter flights once you have flown the aircraft.
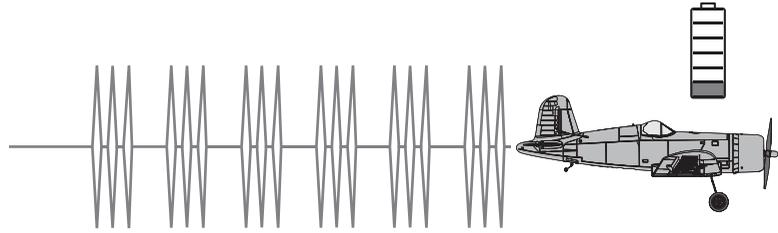
- The aircraft protects the flight battery from accidental over-discharge by, removing power supplied to the motor.
- The motor pulsees, but power remains to steer the aircraft.
- If the motor pulses, land immediately and recharge the flight battery.
- After use, disconnect and remove the battery from the aircraft to prevent trickle discharge.
- If the Li-Po battery is discharged below 3V per cell, it will not hold a charge.

Landing

Land the aircraft in Beginner mode.

⚠️ **CAUTION:** Never catch a flying aircraft in your hands. Doing so could cause personal injury and damage to the aircraft.

Easy Landing
Landing is easier if you hold the Panic Recovery button. Line up for your landing, decrease the throttle to 0% and press and hold the Panic Recovery button. The aircraft will glide down wings level with the nose up (flared) for landing.
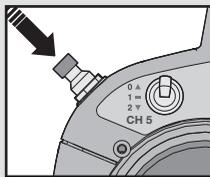
NOTICE: If a crash is imminent, reduce the throttle. Failure to do so could result in extra damage to the airframe, as well as damage to the receiver and motor.

NOTICE: Crash damage is not covered under warranty.

⚠️ **WARNING**
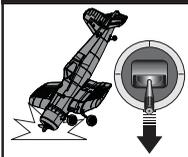
Always decrease throttle at propeller strike.

Descends at 0% throttle

Wind 0–7 mph (0–11km/h)

Prolong Battery Life

- Before storage, charge your battery to about half capacity. Capacity decreases with use and age.

- During storage, ensure the charge does not fall below 3V per cell.
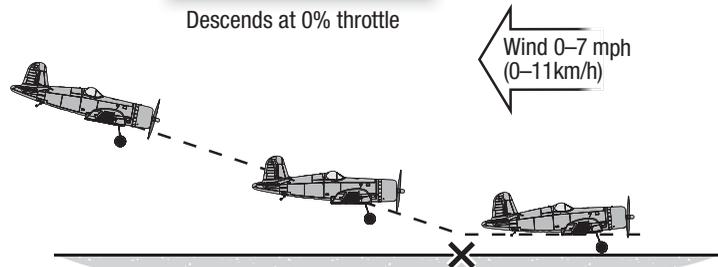
Post Flight

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 foam.

Post Flight Checklist	✓
1. Disconnect flight battery from the aircraft. (Required for Safety)	
2. Remove flight battery from the aircraft.	
3. Power off transmitter.	
4. Recharge flight battery.	
5. Repair or replace all damaged parts.	
6. Store flight battery apart from the aircraft and monitor the battery charge.	
7. Make note of flight conditions and flight plan results, planning for future flights.	

Transmitter Setup

IMPORTANT: The included AR636 receiver has been programmed for operation specifically in this aircraft. The programming in this receiver cannot be changed by the user.

To operate the SAFE system in this aircraft, set up your optional DSM2/DSMX transmitter using the chart below.

- SAFE Flight mode is selected using Channel 5 signal (high, middle, low)

- Panic Recovery mode is selected with Channel 6 signal (high, low)

IMPORTANT: A transmitter with a 2-position Channel 5 switch will only allow the use of position 0 or position 2 flight modes. If possible (refer to your transmitter manual), assign Channel 5 in your transmitter to a 3-position switch to operate all 3 flight modes.

Refer to your transmitter's manual for more information about transmitter setup.

Non Computerized Transmitter Setup (DX4e and DX5e)			
Transmitter	SAFE mode switch	Panic Recovery Switch	SAFE Flight Modes Supported
Throttle, Aileron, Elevator and Rudder in Normal Position			
DX4e (2pos switch)	ACT/AUX switch	Trainer Button	2 Pos Flight Mode
DX4e (3pos switch)	CH 5 switch	Trainer Button	3 Pos Flight Mode
DX5e (2pos switch)	CH 5 switch	Trainer Switch	2 Pos Flight Mode
DX5e (3pos switch)	CH 5 switch	Trainer Switch	3 Pos Flight Mode

Computerized Transmitter Setup (DX6i, DX6, DX7S, DX8, DX9, DX10t and DX18)		
Start all transmitter programming with a blank model (do a model reset), then name the model.		
Set Dual Rates to:	HIGH 100%	
	LOW 70%	
DX6i	1. Go to the SETUP LIST MENU	
	2. Set MODELTYPE: ACRO	
	3. Set REVERSE: Gear Channel	
	4. Go to ADJUST LIST MENU	
	5. Set TRAVEL ADJ: Gear/Fmode (0)↑100%; Gear/Fmode (1)↓ 40%	
	6. Set FLAPS: Norm ↑100; LAND ↓100	
	7. Set MIX 1: ACT; Gear →Gear ACT, RATE D 0%; U + 100%, SW MIX, TRIM INH	
	Resulting in:	The Gear and Mix switches operate the 3 SAFE modes Gear 0; Mix 0 = Beginner Mode Gear 1; Mix 0 = Intermediate Mode Gear 1; Mix 1 = Experienced Mode The Flap switch operates Panic Recovery: Position 0=Off, Position 1=On. (not a momentary switch)
DX7S DX8	1. Go to the SYSTEM SETUP	
	2. Set MODEL TYPE: AIRPLANE	
	3. Set SWITCH SELECT: Change all to INH then TRAINER: AUX1, FLAP: GEAR	
	4. Go to the FUNCTION LIST	
	5. Set SERVO SETUP: Reverse AUX1	
	Resulting in:	Flap/Gyro Switch operates the 3 SAFE modes (0 beginner/1 intermediate/2 experienced) The Trainer/Bind button operates Panic Recovery
DX6 DX9 DX10t DX18	1. Go to the SYSTEM SETUP	
	2. Set MODEL TYPE: AIRPLANE	
	3. Set CHANNEL ASSIGN: click NEXT to go to Channel Input Config: GEAR: B, AUX1: i (DX10t GEAR: A, AUX1: R-stick)	
	4. Go to the FUNCTION LIST	
	5. Set SERVO SETUP: Reverse AUX1	
	Resulting in:	Switch B (DX10t: A) operates the 3 SAFE modes (0 beginner/1 intermediate/2 experienced) The Bind/I button (DX10t: R-stick) operates Panic Recovery

Service of Power Components

⚠ **CAUTION:** Always disconnect the flight battery from the model before removing the propeller.

Disassembly

1. Remove the spinner nut (**A**), propeller (**B**), backplate (**C**) and collet (**D**) from the motor shaft. You will need a tool to turn the spinner nut.

2. Remove the 3 screws (**E**) from the cowling (**F**) and the fuselage.

3. Carefully remove the cowling from the fuselage. Paint may keep the cowling attached to the fuselage.

4. Remove the 4 screws (**G**) from the motor mount (**H**) and the fuselage.

5. Disconnect the motor wires from the ESC wires.

6. Remove the 4 screws (**I**) and the motor (**J**) from the motor mount.

7. Assemble in reverse order.

Assembly Tips

- 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.
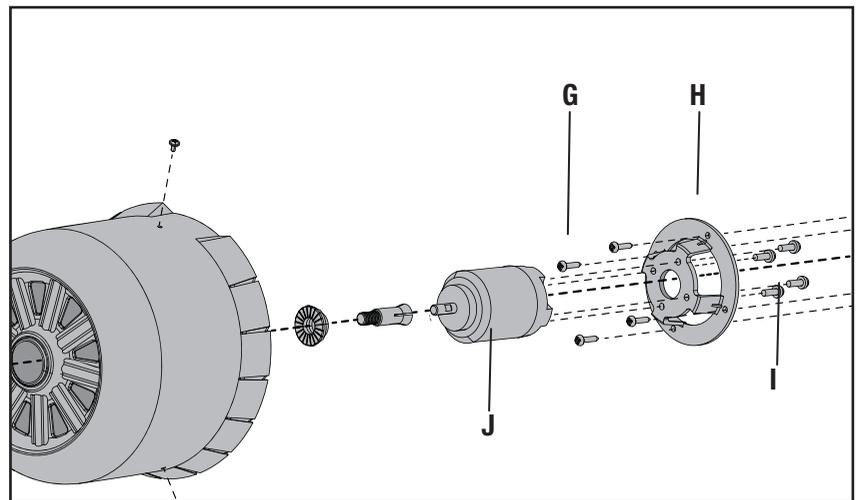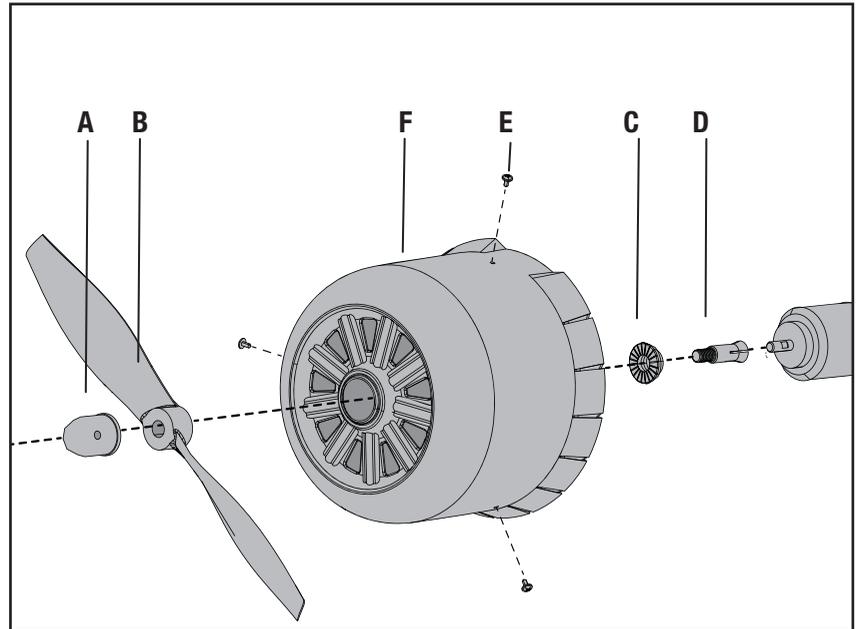
Service and Repair

NOTICE: If you replace the receiver, install the new receiver in the same orientation and manner as the original receiver or damage may result.

Thanks to the Z-Foam™ material in the wing and fuselage of this aircraft, repairs to the foam can be made using virtually any adhesive (hot glue, regular CA (cyanoacrylate adhesive), epoxy, etc).

However, use only foam-compatible CA, foam-compatible accelerant or epoxy on the horizontal tail material.

Trouble Shooting Guide

Problem	Possible Cause	Solution
Aircraft oscillates	Loose or damaged spinner nut, propeller, shaft or motor	Replace parts or correctly align all parts and tighten fasteners as needed
	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)
Trim is at extreme and aircraft does not fly straight or level	Trim is not at neutral	If you need to adjust trim more than 8 clicks, return the trim to neutral and manually adjust the clevis to mechanically remove trim
Trim change when flight mode is switched	Receiver did not save trim setting	After adjusting transmitter trim in the air or on the ground, do not touch the control sticks for 2 seconds
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 channel is reversed	Reverse throttle channel on transmitter
	Motor disconnected from Receiver/ESC	Make sure motor is connected to the Receiver/ESC
Extra propeller noise or extra vibration	Damaged propeller and spinner nut, shaft or motor	Replace damaged parts
	Propeller is out of balance	Balance or replace propeller
	Prop nut is too loose	Tighten the prop nut
Reduced flight time or aircraft underpowered	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
Aircraft will not Bind (during binding) to transmitter. Refer to the transmitter manual for binding instructions	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
	Flight battery/transmitter battery charge is too low	Replace/recharge batteries
	The bind plug is not installed correctly in the bind port	Install bind plug in bind port and bind the aircraft to the transmitter
	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 Refer to the transmitter manual for binding instructions	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
	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 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
	Flight battery charge is low	Fully recharge flight battery
	Receiver is damaged	Replace Receiver
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	Normal 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

AMA National Model aircraft Safety Code

Effective January 1, 2014

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, education 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.)
   (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.)
   (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 and #923.)

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.

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. Hand-held illumination systems are inadequate for night flying operations.

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.
   (C) Fly using the assistance of autopilot or stabilization system only in accordance with the procedures outlined in AMA Document #560.

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

Limited Warranty

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

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

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

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 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.

Contact Information

Country of Purchase	Horizon Hobby	Phone Number/Email Address	Address
United States of America	Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby.com/ RequestForm/	4105 Fieldstone Rd Champaign, Illinois, 61822 USA
	Horizon Product Support (Product Technical Assistance)	www.quickbase.com/db/ bghj7ey8c?a=GenNewRecord 888-959-2305	
	Sales	sales@horizonhobby.com 888-959-2305	
United Kingdom	Service/Parts/Sales: Horizon Hobby Limited	sales@horizonhobby.co.uk +44 (0) 1279 641 097	Units 1–4 , Ployters Rd, Staple Tye Harlow, Essex, CM18 7NS, United Kingdom
Germany	Horizon Technischer Service Sales: Horizon Hobby GmbH	service@horizonhobby.de +49 (0) 4121 2655 100	Christian-Junge-Straße 1 25337 Elmshorn, Germany
France	Service/Parts/Sales: Horizon Hobby SAS	infofrance@horizonhobby.com +33 (0) 1 60 18 34 90	11 Rue Georges Charpak 77127 Lieusaint, France
China	Service/Parts/Sales: Horizon Hobby – China	info@horizonhobby.com.cn +86 (021) 5180 9868	Room 506, No. 97 Changshou Rd. Shanghai, China 200060

FCC Information

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

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

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

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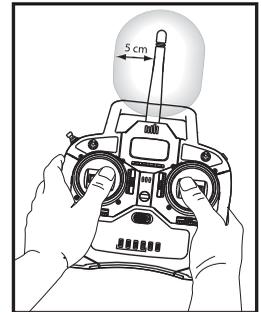
This illustration show the approximate 5 cm RF exposure area and typical hand placement when operating your transmitter.

IC Information

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Compliance Information for the European Union

AT	BE	BG	CZ	CY	DE	DK
EE	ES	FI	FR	GR	HR	HU
IE	IT	LT	LU	LV	MT	NL
PL	PT	RO	SE	SI	SK	UK
IS	LI	NO	CH			

Declaration of Conformity
(in accordance with ISO/IEC 17050-1)
No. HH2014062101

Product(s):   F4U Corsair S RTF
Item Number(s):   HBZ8200EU, HBZ8200EU1, HBZ8200UK, HBZ8200UK1
Equipment class: 2

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

EN 300-328   V1.7.1: 2006
EN301 489-1   V1.9.2: 2012
EN301 489-17 V2.1.1: 2009

EN60950-1:2006+A11:2009+A1:2010+A12: 2011

EN55022:2010 + AC:2011
EN55024:2010
EN61000-3-2:2006+A1:2009+A2:2009
EN61000-3-3:2008

Signed for and on behalf of:
Horizon Hobby, LLC
Champaign, IL USA
June 21, 2014

Robert Peak
Chief Financial Officer
Horizon Hobby, LLC

Declaration of Conformity
(in accordance with ISO/IEC 17050-1)
No. HH2014062102

Product(s):   F4U Corsair S BNF
Item Number(s):   HBZ8280EU, HBZ8280UK
Equipment class: 1

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

EN301 489-1   V1.9.2: 2012
EN301 489-17 V2.1.1: 2009

EN60950-1:2006+A11:2009+A1:2010+A12: 2011

EN55022:2010 + AC:2011
EN55024:2010
EN61000-3-2:2006+A1:2009+A2:2009
EN61000-3-3:2008

Signed for and on behalf of:
Horizon Hobby, LLC
Champaign, IL USA
June 21, 2014

Robert Peak
Chief Financial Officer
Horizon Hobby, LLC

Instructions for disposal of WEEE by users in the European Union

This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collections point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.

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

Part # I Nummer Numéro I Codice	Description	Beschreibung	Description	Descrizione
PKZ1012	2-Blade Propeller (9.5x7.5): T28/Corsair	Parkzone T28 Luftschraube 9.5x7.5	T28/Corsair - Hélice bipale 9.5x7.5	Elica 2 pale (9.5x7.5): T28/Corsair
EFLA109/EU/UK/AU	AC Power Supply	AC Netzgerät	Alimentation secteur	Alimentatore AC
PKZ1040	2-3 cell DC Li-po balancing charger	2-3 DC Lipo-Balancer-Ladegerät	Chargeur-équilibreur CC Li-Po 2–3 cellules	Caricabatteria con bilanciatore per 2 o 3 celle Li-Po
SPMAR636F4U	AR636A F4U Corsair S Replacement Receiver	F4U Corsair S: Ersatzempfänger	Récepteur de rechange : F4U Corsair S	Ricevitore di ricambio: F4U Corsair S
HBZ8201	Painted Wing: Corsair S	Hobbyzone Corsair S: Tragfläche lackiert	Aile peinte: Corsair S	Ala verniciata: Corsair S
HBZ8202	Painted Fusealage: Corsair S	Hobbyzone Corsair S: Rumpf lackiert	Fuselage peint: Corsair S	Fusoliera verniciata: Corsair S
HBZ8203	Cowl: Corsair S	Hobbyzone Corsair S: Motorhaube	Capot: Corsair S	Capottina motore: Corsair S
HBZ8204	Horizontal Tail: Corsair S	Hobbyzone Corsair S: Höhenleitwerk m. Zbh.	Stabilisateur: Corsair S	Piano di coda orizzontale: Corsair S
HBZ8205	Canopy & Pilot W/Hatch: Corsair S	Hobbyzone Corsair S: Kabinenhaube & Pilot	Verrière/trappe et pilote: Corsair S	Capottina e pilota con portello: Corsair S
HBZ8206	Main Gear and Doors: Corsair S	Hobbyzone Corsair S: Fahrwerk u. Fahrwerkstüren	Jambes de train principales: Corsair S	Carrello principale e portelli: Corsair S
HBZ8207	Landing Skids: Corsair S	Hobbyzone Corsair S: Landekufen	Patins d'atterrissage: Corsair S	Pattini di atterraggio: Corsair S
HBZ8208	Pushrods W/Clevis: Corsair S	Hobbyzone Corsair S: Gestänge m. Gabelköpfen	Tringleries avec chapes: Corsair S	Rinvii con forcelle: Corsair S
HBZ8209	Decal Sheet: Corsair S	Hobbyzone Corsair S: Dekorbogen	Planches de décoration: Corsair S	Foglio adesivi: Corsair S
PKZ1016	Prop Hub: Corsair	Parkzone Spinner Corsair	Moyeu d'hélice	Mozzo elica: Corsair
EFLB18003S30	1800mAh 3S 11.1V 30C LiPo,13AWG EC3	E-flite 1800mAh 3S 11.1V 30C LiPo,13AWG EC3	Batterie Li-Po 3S 11.1V 1800mA 30C	Batteria LiPo 1800mAh 3S 11.1V 30C,13AWG EC3
PKZ1063	Servo Y-Harness: Corsair/3D2/T28	Parkzone Servo Y-Kabel 3D2, T-28	Cordon Y: T28	Prolunga servo a Y: Corsair/3D2/T28
PKZ1064	Metal Gear Set: DSV130M	Parkzone Metallgetriebe DSV130M	DSV130M - Set de pignons métal	Set ingranaggi metallo: DSV130M
PKZ1081	SV80 Servo (long lead): Ailerons	Parkzone SV80 Servo mit langem Kabel	Servo SV80 câbles longs	Servo SV80 per alettoni (filo lungo)
PKZ1090	DSV130M Servo (short lead): Rudder and Elevator	Parkzone DSV130 Digitalservo MG	Servo DSV130M câbles courts	Servo DSV130M per timone ed elevatore (filo corto)
PKZ4416	480 Outrunner Brushless Motor: T28/Corsair	Parkzone Bl Außenläufer 960kV : T28	Moteur brushless 480 à cage tournante: T28	Motore 480 brushless a cassa rotante: T28/Corsair
PKZ4418	Motor Shaft: 480 Outrunner	Parkzone Motorwelle : T28	Axe de moteur 480 à cage tournante: T28	Albero motore 480 a cassa rotante
PKZ4428	Motor Mount: T28/Corsair	Parkzone Motorhalter mit Schrauben : T28	Support moteur: T28	Supporto motore: T28/Corsair
EFLA1030	30-Amp Pro Brushless ESC	E-flite 30A Pro SB Regler	Contrôleur brushless 30A	ESC Pro Brushless da 30A

Optional Parts • Optionale Bauteile • Pièces optionnelles • Pezzi opzionali

Part # I Nummer Numéro I Codice	Description	Beschreibung	Description	Descrizione
SPMP610	Neck Strap	Spektrum Sendergurt	Sangle de cou	Cinghia per collo
PKZ1015	3-Blade Prop, 9 x 7.5: F4U Corsair, T-28 Trojan	Parkzone Dreiblattluftschraube 8.7x6 F4U	Hélice Tripale 9x7.5: F4U Corsair, T-28 Trojan	Elica 3 pale, 9 x 7.5: F4U Corsair, T-28 Trojan
EFLAEC312	EC3 Charge Lead w/12" Wire & Jacks,16AWG	EC3 Ladekabel mit Stecker	Prise de charge EC3, long 30cm	Cavo di carica EC3 da 30cm con jacks,16AWG
EFLB22003S30	11.1V 3S 30C 2200mAh Li-Po	3S 30C 2200mAh LiPo 11.1V	3S 30C 2200MAH Li-Po	11.1V 3S 30C 2200MAH Li-Po
PKZ1031	11.1V 1800mAh Li-Po	Parkzone 11.1V 1800mAh Lipo	11.1V 1800mAh Li-Po	Batteria LiPo 11.1V 1800mAh
EFLA111	Li-Po Cell Voltage Checker	E-flite Li-Po Cell Volt Checker	Testeur de tension pour batterie li-Po	Voltmetro per celle LiPo
EFLA250	Park Flyer Tool Assortment, 5 pc	E-flite Park Flyer Werkzeugsortiment, 5 teilig	Assortiment d'outils pour park-flyer, 5 pièces	Assortimento attrezzi per Park Flyer
EFLAEC202	EC2 Battery Connector (2)	E-flite EC2 Akkubuchse (2)	Prise EC2 coté batterie (2)	EC2 Connettore batteria (2)
EFLAEC203	EC2 Device & Battery Connector	E-flite EC2 Stecker / Buchse	Prise EC2 coté contrôleur et coté batterie	EC2 dispositivo & connettore batteria
DYNC2010CA	Prophet Sport Plus 50W AC DC Charger	Dynamite Ladegerät Prophet Sport Plus 50W AC/DC EU	Chargeur Prophet Sport plus 50W AC/DC	Caricatore Prophet Sport Plus 50W AC DC
DYNC2015	Prophet Precept 80W LCD AC/DC Battery Charger	Prophet Precept 80W LCD AC/ DC Akku Ladegerät	DYNC2015 Chargeur Prophet Percept AC/DC 80W LCD	Prophet Precept 80W LCD ACDC Carica Batterie
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
RTM50R4400	Phoenix R/C Pro Simulator V5.0 w/DX4e Mode 2	Phoenix R/C Pro Simulator V5.0 m. DX4e	Simulateur Phoenix V5 avec DX4e mode 2	Phoenix R/C Pro simulatoreV5.0 w/DX4e Mode 2
RTM5000	Phoenix R/C Pro Simulator V5.0	Phoenix R/C Pro Simulator V5.0	Simulateur Phoenix V5	Phoenix R/C Pro simulatore V5.0
	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 ohne Empfänger	Emetteur DX6i DSMX 6 voies	DX6i DSMX Trasmettitore 6 canali
	DX6 DSMX 6-Channel Transmitter	Spektrum DX6 DSMX 6 Kanal Sender ohne Empfänger	Emetteur DX6 DSMX 6 voies	DX6 DSMX Trasmettitore 6 canali
	DX7s DSMX 7-Channel Transmitter	Spektrum DX7s DSMX 7 Kanal Sender ohne Empfänger	Emetteur DX7s DSMX 7 voies	DX7s DSMX Trasmettitore 7 canali
	DX8 DSMX 8-Channel Transmitter	Spektrum DX8 DSMX 8 Kanal Sender ohne Empfänger	Emetteur DX8 DSMX 8 voies	DX8 DSMX Trasmettitore 8 canali
	DX9 DSMX 9-Channel Transmitter	Spektrum DX9 DSMX 9 Kanal Sender ohne Empfänger	Emetteur DX9 DSMX 9 voies	DX9 DSMX Trasmettitore 9 canali
	DX10t DSMX 10-Channel Transmitter	Spektrum DX10t DSMX 10 Kanal Sender ohne Empfänger	Emetteur DX10t DSMX 10 voies	DX10t DSMX Trasmettitore 10 canali
	DX18 DSMX 18-Channel Transmitter	Spektrum DX18 DSMX 18 Kanal Sender ohne Empfänger	Emetteur DX18 DSMX 18 voies	DX18 DSMX Trasmettitore 18 canali

HBZ8200, HBZ8280