FUN IS ALL THE RAGE
RAGE RC

GOLDEN AGE SERIES

Spirit of St. Louis

4-Ch Micro RTF Airplane with PASS

MANUAL



Specs:

Wingspan	22-3/4" (577.85mm)
Length:	13-3/4" (349.25mm)
Wing Area:	75.5 sq.in. (4.87sq.dm.)
Weight w/o Battery:	2.5oz. w/battery (72g)
Battery:	1S 3.7V 400 mAh LiPo
Transmitter:	2.4GHz with 4-channel control and PASS system
On-Board Electronics:	3-in-1 Receiver (2 servos/ESC) and separate 2.5g aileron servo

Safety Precautions

Age Recommendation; 14 years and up. This is not a toy.

As the owner of this airplane, you are responsible to make sure that injury to others or damage to property is avoided.

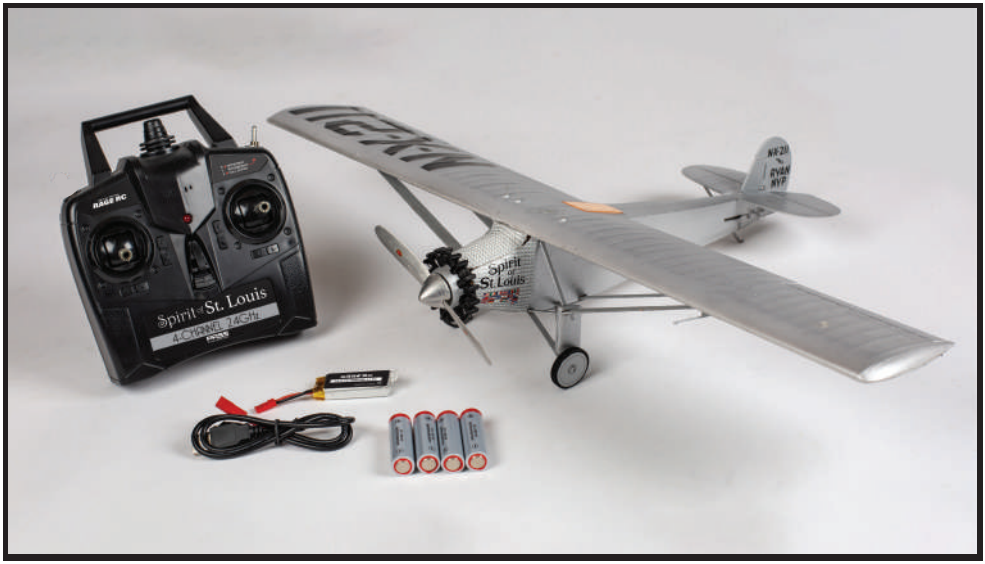
Make sure that you are familiar with the entire instruction manual before operation.

Battery Warnings

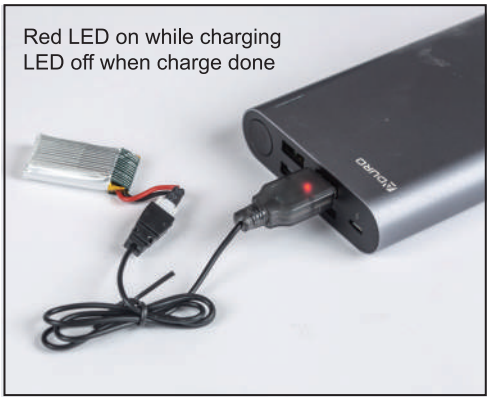
Important Notice: Mishandling of LiPo batteries can result in fire, personal injury and/or property damage!

- Ensure the batteries are properly charged before flying.
- If at any time that battery begins to balloon or swell, discontinue use immediately.
- Always store batteries at room temperature in a dry environment.
- Do not store or transport your LiPo batteries in direct sunlight or in a hot vehicle.
- Make sure to inspect all batteries before charging and do not charge damaged batteries.
- Always disconnect the battery after charging and allow the charger to cool before the next charge.
- Never leave charging batteries unattended.
- Never charge batteries in extremely hot or cold temperatures or in direct sunlight.

Box Contents

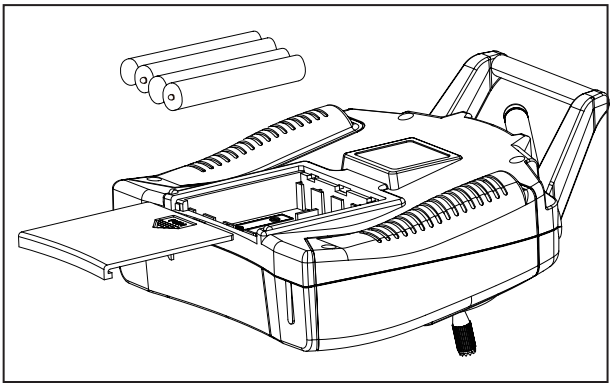


Charging and Transmitter Battery Installation



1. Unplug the battery from your plane.
2. Plug the charger into the USB port on your computer or USB adapter.
3. Connect battery to the charger.
4. The charging process may take up to 1 hours. As a safety precaution, never charge the battery for longer than 4 hours. While charging, the red LED indicator will light. When charging is complete, the LED will turn off.

Install 4 AA batteries (included) in the transmitter.



Arming/Disarming the Motor

When the transmitter and airplane are powered on, the aircraft binds automatically All functions are then active, except the throttle. To arm the motors move the throttle stick on the transmitter to the bottom and right. To disarm the motors move the throttle stick on the transmitter to the bottom left.



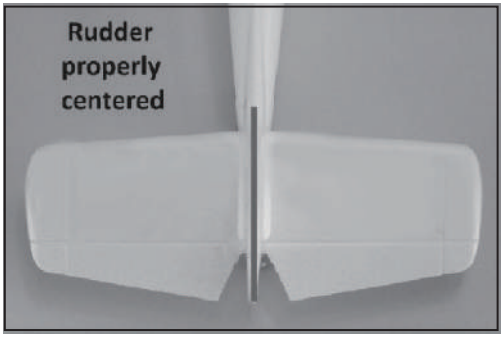
Transmitter Layout



Centering Control Surfaces

NOTE: Turn the PASS switch off (expert mode) before you complete the steps below. See more information in "PASS System" section.

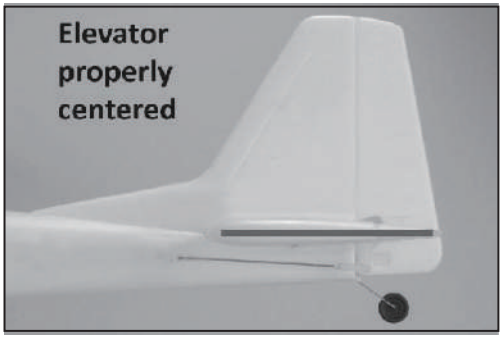
With the transmitter turned on and the battery connected to the ESC (and installed in the battery compartment), it is now possible to check the center of all control surfaces.





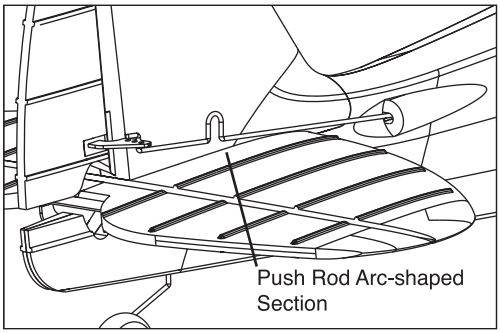
Check that the rudder is properly centered as shown above.



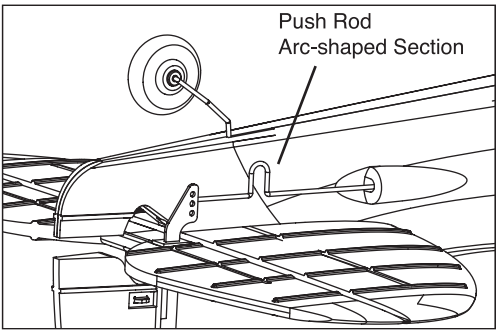


Then check that the elevator is properly centered as shown above.

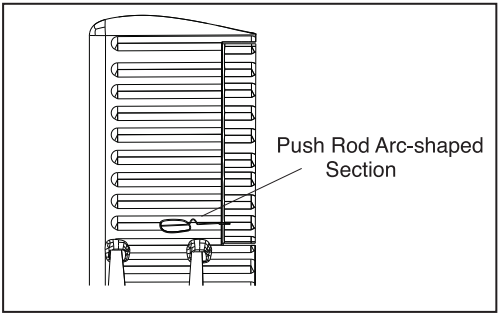
Centering Control Surfaces (cont.)



If the rudder is not properly centered, adjust the push rod length by bending the arc-shaped section slightly with needle nose pliers until the rudder is centered.



If the elevator is not properly centered, adjust the push rod length by bending the arc-shaped section slightly with needle nose pliers until the elevator is centered.



If the aileron is not properly centered, adjust the push rod length by bending the arc-shaped section slightly with needle nose pliers until the aileron is centered.

Please Note: It is unlikely that you will need to make these adjustments to your new model. Any final adjustments can be made with the trim buttons as shown on page 6.

PASS System Control

0 - Away From You- Manual / PASS Off (EXPERT)
1 - In the Middle - Partial Assist (MID)
2 - Towards You - Full Assist (BEGINNER)



The PASS System comes pre-installed in the airplane to help make flying a smoother experience. In either assist mode, the PASS System greatly reduces the stress of the pilot and makes the plane easier and even more fun to fly.

The PASS System has 3 levels of control.
Full Assist (switch toward pilot) In this position the bank and dive angles of the airplane are greatly restricted and the plane will return to level flight when the sticks are released.
Partial Assist (switch in middle) In this position the bank and dive angles are increased, but the plane still returns to level flight when the sticks are released.
No Assist (switch away from pilot) In this position the stability system is inactive. This is the expert setting and allows for unaided control. If orientation or control is lost, simply switch to one of the other assist modes to regain control.

Binding Instructions



The Spirit of St Louis 4-channel comes bound to the transmitter. Should you need to re-bind, follow these steps.

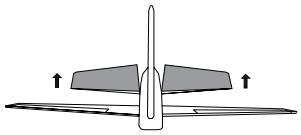
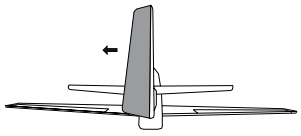
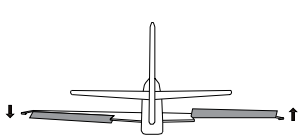
- Turn on both transmitter and aircraft.
- Press both throttle trim buttons simultaneously.
- The blue light on the control board inside the airplane will light up.
- The transmitter will continue to beep until the binding process is complete.
- When beeping stops, the binding process is complete.

Digital Trim

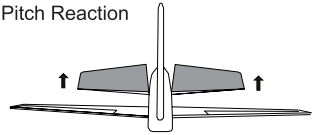
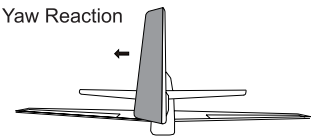
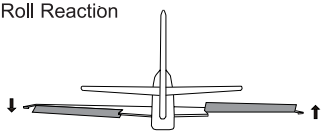
Digital trims allow you to adjust the center position of aileron, rudder, or elevator. Each time the trim button is pressed, the servo output will change slightly. If the trim button is held, the output will scroll in that direction until the trim button is released or the output reaches its end. When you hear a longer "beep" sound, the trim is centered.



Checking Control Movement

Transmitter Operaton	Reaction
Elevator Stick	
Rudder Stick	
Aileron Stick	

With the aircraft power on and the PASS system in Expert, check the elevator, rudder and aileron response as shown above.

Swing The Plane	PASS Reaction
	Pitch Reaction 
	Yaw Reaction 
	Roll Reaction 

With the aircraft power on and the PASS system in Partial or Full Assist, check the elevator, rudder and aileron response as shown above.

Pass System Calibration

The PASS system used in the SSL 4-Channel is pre-calibrated from the factory. Recalibration is only necessary if the aircraft does not respond correctly (pitches up or down) when the PASS switch is activated. With the aircraft sitting on a level surface and "wings level" attitude, follow the steps below to recalibrate the PASS system:

Gyro Calibration

Turn on the transmitter, connect the airplane battery and keep the plane level and steady. When the red light on the control board turns off, gyro calibration is complete.

Accelerometer Calibration

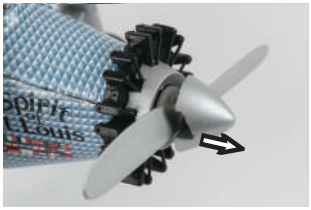
Turn on the transmitter and elevate the nose of the airplane slightly (not more than 15 degrees). Connect the airplane battery and make sure the airplane is held steady. Then, disarm the motor following the instructions on page 8 and the red light on the control board will turn off. Next, move the left stick to the top and left and the red LED will begine to flash. Keep the right stick at the bottom and center for 3 seconds and a blue light on the control board will flash once. Calibration is then complete. The red light on the board will stop flashing when the throttle stick is returned to the bottom center.

Flight Checklist

IMPORTANT NOTE: Although this section can be used as a quick start guide, we strongly suggest that you read the entire manual before proceeding. This checklist is NOT intended to replace the content included in this instruction manual.

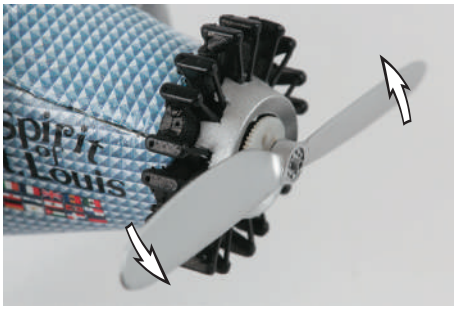
- Always turn the transmitter on first.
- Ensure the throttle control stick is at bottom position before connecting the battery.
- Fly the model (hand-launch or take off from a flat/level surface).
- Land the model (on a flat/level surface).
- Unplug the battery from airplane.
- Always turn off the transmitter last.

Propeller Replacement



If your prop becomes damaged and needs to be replaced, gently pry the spinner free from the prop. A thin piece of plastic like a credit card works well.

Spin the prop off of the shaft in a counterclockwise direction when viewed from the front (see photo). To install the new prop on the prop shaft, turn it in a clockwise direction. Once it is tightened, you can reinstall the spinner. A very small amount of foam glue can be added to the back of the spinner to help keep it in place.



Replacement Parts

Parts List

Item Number	Description
RGRA1450	Spirit of St Louis 4-Ch Micro RTF Airplane
RGRA1451	Gearbox with Shaft
RGRA1452	Gearbox with 2 Coreless Motors
RGRA1453	Main Wing Set with Decals
RGRA1454	Fuselage with Decals
RGRA1455	Pushrod Set
RGRA1456	Wing Strut Set
RGRA1457	RX Module w/PASS
RGRA1120	Propeller and Spinner
RGRA1121	Propeller Shaft with Gear
RGRA1126	Tail Set w/Decals
RGRA1128	Main Landing Gear Set
RGRA1239	2.5g Aileron Servo
RGRA1242	2.4Ghz Transmitter
RGRA1243	1S 400mAh 25C LiPo with JST
RGRA1428	500mA 1S USB Charger with JST

See your local hobby shop or place of purchase first. If unavailable, parts can be ordered direct at www.ragerc.com or call 1-866-724-3811 M-F 9:00-5:00PM Mountain Time.

New, Fun Product from Rage RC!

FUN IS ALL THE RAGE

RAGE RC

The AeroBoard RTF (Ready-to-Fly) is the next step in micro flying fun from Rage RC! The AeroBoard offers a 6-axis gyro control system that provides amazing stability and the Auto Take-Off and Land and Altitude Hold features make it easy for new pilots to learn to fly. The AeroBoard also offers 3 distinct flying rates to fit the skill level of any pilot. This feature allows new pilots to increase the speed and agility of the aircraft as their skills progress and also provides advanced pilots the ability to adjust the speed and power based on flight conditions and space. The capability of completing 360° flips to the right or left allows any pilot to easily complete stunts that make them look like a pro.

The AeroBoard also features a 380mAh removable flight battery capable of flights of up to 7 minutes, so by adding extra batteries, you don't need to wait for the unit to recharge to continue flying. For even more fun, purchase a set of lightweight hoops (sold separately) to test your flying skills and create obstacle courses to compete against your friends!



AEROBOARD *Micro RTF Aircraft*



AeroBoard RTF Patriot

RGR4570



AeroBoard RTF Robot

RGR4571



AeroBoard RTF Skater

RGR4572

Brand New and In Stock Now!



Not only does the Stinger BL not break the budget for a full-featured FPV drone, but it also includes 2 key features: brushless motors for more powerful and efficient flying and FPV viewing directly on the LED screen on the transmitter. So, there is no need to connect to another device and app to view your flights! The Stinger BL includes nearly all the convenient flight features included on previous Stinger drones like Altitude Hold, One-Touch Take-Off and Landing, 6-Axis Gyro Stabilization Control, high-visibility LEDs, Collision Avoidance, and Optical Flow. As a fun flying feature, it's even capable of 360 degree flips. And, for capturing images and video, the Stinger BL features an adjustable 1080p HD camera with a single-axis control (up and down) that can be viewed directly on the transmitter.







Features:

2.4GHz Transmitter with LED Screen
1080p High-Definition 1-Axis Adjustable Camera
Powerful Brushless Motors
One Touch Take-Off & Landing
Capable of 360 Degree Flips
Total Width (Motor shaft to motor shaft): 7.0" (177mm)

Specifications:

Height: 2.25" (58mm)
Weight: 5.4 oz (152g)
Battery: 3.7V 1S 1200mAh LiPo Battery
Motors: 1503/4200Kv Brushless Motors with Integrated ESCs
Charger: USB-A to USB-C Charge Cord
Transmitter: 4-Channel, 2.4GHz with LED Screen & Built-in Battery



Stinger BL Brushless FPV Drone w/Storage Case

RGR4600

Limited Warranty

Warranty Period: Rage R/C warrants that the Spirit of St.Louis 4-Channel (“Product”) free from original factory defects in materials and workmanship upon purchase (“Warranty Period”). What is Not Covered - This warranty is not transferable and does not cover (a) cosmetic damage, (b) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (c) modification to any part of the Product, (d) attempted service by anyone other than a Rage R/C authorized service center, or (e) Product not purchased from an authorized Rage R/C dealer.

OTHER THAN THE EXPRESS WARRANTY ABOVE, RAGE R/C MAKES NO OTHER WARRANTY OR REPRESENTATION, AND THREFORE DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND SUITABILITY FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Purchaser’s Remedy - Rage R/C’s sole obligation and purchaser’s sole and exclusive remedy shall be that Rage R/C will, at its option, either (a) service, or (b) replace, any Product determined by Rage R/C to be defective. Rage R/C 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 Rage R/C. 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 - RAGE R/C 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 RAGE R/C HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Further, in no event shall the liability of Rage R/C exceed the individual price of the Product on which liability is asserted. As Rage R/C 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 Utah 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. Rage R/C reserves the right to change or modify this warranty at any time without notice.

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Salt Lake City, Utah 84104

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