



1400mm Shrike Glider

## INSTRUCTION MANUAL



Rev.1B 10.22.2019

Welcome to Skynetic, a new brand of foam electric aircraft offering high value and diverse selection for newer pilots looking to broaden their flying experience across a range of platforms. Developed by and available exclusively at Motion RC, Skynetic advances our vision of a global audience discovering the fun of RC Flight. Backed by Motion RC's customer support and a full line of spare parts to keep you flying, we look forward to expanding this brand for you!

#### SUPPORT

Thank you for purchasing your Skynetic 1400mm wingspan Shrike Glider. For technical support when setting up or operating this aircraft, please contact Motion RC at 224-633-9090 in the United States or +31-30-8080557 in Europe or email us at [www.motionrc.com/support](http://www.motionrc.com/support).

#### ORIGINAL EQUIPMENT AND WARNINGS

Your Skynetic 1400mm wingspan Shrike Glider is specified to use a single 3s 11.1 volt Li-Po battery with an XT60 connector. The recommended capacity of the battery is 2200mAh. Adhere to all safety guidelines regarding the storage, charging, and operation of Li-Po batteries.

Modifying the propeller, ESC, or battery to components other than the original equipment will void the manufacturer warranty. This product is a remotely controlled (RC) airplane and is intended for competent RC pilots of at least 16 years of age and under adult supervision.

#### VIDEO SUPPLEMENT

[This instruction manual is supplemented by an Assembly Video that can be viewed here](#)

#### SPARE PARTS and SPECIFICATIONS

[Complete product information including specifications and spare parts can be found here](#)

## ASSEMBLY

### STEP 1

Remove the underside hatch and temporarily loosen the rudder and elevator's control rods with a 1.0mm allen key. This will alleviate any binding that may occur when manually moving the elevator horn in Step 3.



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### STEP 2

Prepare the model for physical assembly by first binding your receiver to your radio transmitter, centering the model's servos, and calibrating the throttle. We also recommend programming a throttle lock for additional safety. Refer to your radio transmitter's manual for instructions.

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### STEP 3

Attach the horizontal stabilizer to the fuselage as shown by gently popping it into place, then secure the control horn.



#### STEP 4

Your Skynetic 1400mm Shrike Glider features an innovative screw-less assembly. This allows the wing to be attached and removed without the need for any tools.

First, attach the carbon rod into the left wing and insert it into the fuselage as shown, aligning the blue pins.



#### STEP 5

With both wing halves attached to the fuselage, slide the Wing Pin into the hole as shown. This pin aligns the interlocking wing halves, and ensures the wings are fastened securely. Always verify this Wing Pin is fully inserted before each flight. If the Wing Pin is not able to be fully inserted, reposition the wings until full insertion is achievable.

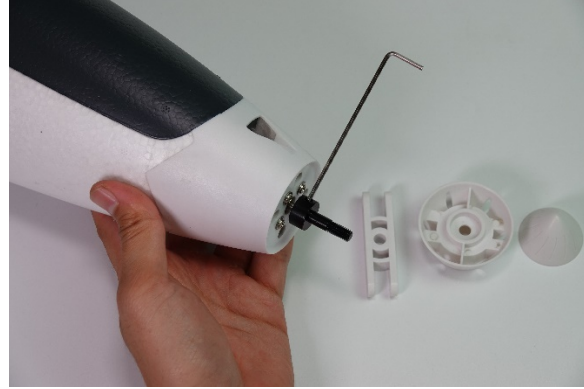
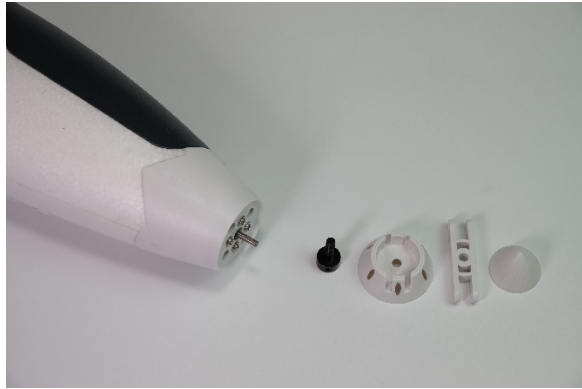


Additional Wing Pins can be purchased at [www.motionrc.com](http://www.motionrc.com). Under the Spare Parts tab on the Skynetic Shrike's product page, search for the SKU part number: SKY1001-107

#### STEP 6

Before attaching the spinner and propeller, it is imperative that the flight battery is disconnected from the model and the radio transmitter is powered off.

Fasten the spinner in the sequence shown below. Use a 2.0mm allen key to loosen the two opposing set screws, then position the black aluminum prop shaft onto the steel motor shaft, being sure to tighten the set screws directly perpendicular to the flat spots on the motor shaft.



## STEP 7

Slide the white plastic spinner base over the prop shaft. Then insert the folding propeller arm. Finally, thread the spinner's cone onto the prop shaft and tighten to  $\frac{1}{4}$  turn past finger tight. The spinner's cone utilizes a brass threaded insert, for a positive grip onto the prop shaft. Do not overtighten the spinner's cone, and do not use Thread Locker of any kind on this assembly.

*Note: the PNP version will have the propeller blades pre-installed onto the propeller arm.*

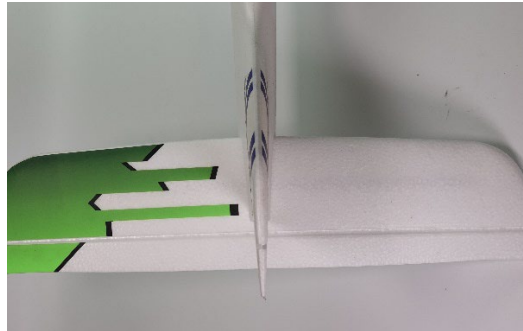



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## STEP 8

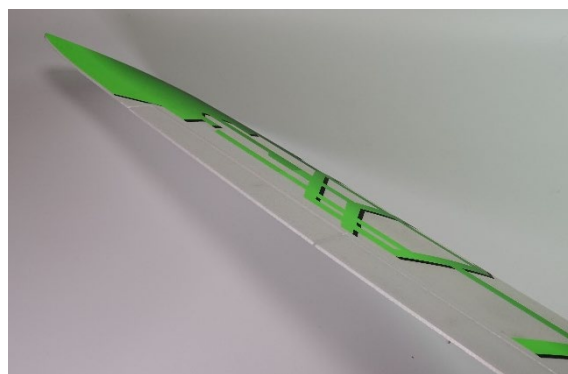
Power on your radio transmitter and plug in the flight battery. If configured, activate your throttle lock switch on your radio transmitter, to prevent accidental spinning of the propeller.

With the servos centered, manually level the elevator so that it is level with the horizontal stabilizer. Then, level the rudder. Finally, retighten the set screws you loosened in Step 1.



## STEP 9

If needed, subtrim your aileron servos so the servo arm is perpendicular to the underside of the wing. Attach the control rods to the pre-installed control horns for the ailerons and flaps so that the trailing edge is aligned as shown.



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## STEP 10

Control Throws, Rates, and Exponential are subject to individual pilot preferences, but we recommend the following configuration for a safe maiden flight as a basis for personalization. The throws below are measured from the neutral position toward one direction.

	High	Middle	Low
Aileron	~15mm	~12mm	~10mm
Elevator	~18mm	~15mm	~12mm
Rudder	~30mm	~25mm	~15mm

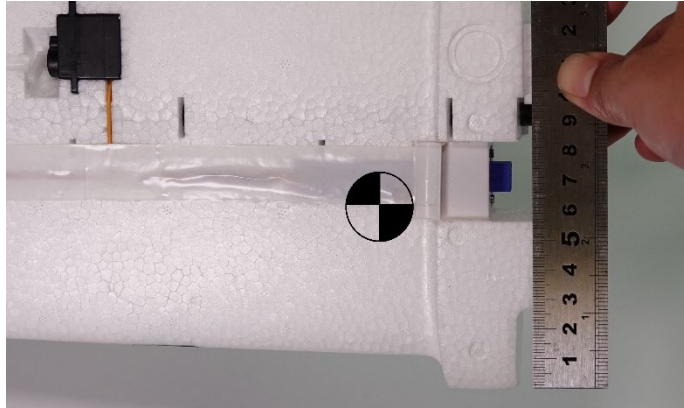
	Deflection	Elevator Mix
Partial Flaps	~12mm	None
Full Flaps	~25mm	None

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## STEP 11

The Center of Gravity is extremely important for a successful maiden flight. Position your battery in the battery tray and balance the model upright so that the model balances at between 65mm aft of the leading edge of the wing piece (see diagram)



When using a battery other than the recommended Admiral 3s 2200mAh battery, always verify that the model balances at the recommended Center of Gravity (CG) position. Do not attempt to fly your model with a “tail heavy” CG position, which may result in loss of control and a crash.

## STEP 12

Before your maiden flight, ensure all control surfaces move in the correct direction.

\*When standing behind the model with the model on the ground, moving the aileron stick to the right must result in the right wing's aileron pointing upward to the sky, and the left aileron pointing downward to the ground.

\*Moving the rudder stick to the right must result in the trailing edge of the rudder moving closer to the right side of the model.

\*Pulling the elevator stick back toward you must result in the trailing edge of the elevator moving upward toward the sky

\*Hold the model firmly and level, then slowly advance the throttle to ensure the propeller spins.

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To hand launch the model, grip it as shown below and apply half throttle with a firm, level throw. An ideal hand launch is executed into a headwind. If you are unfamiliar with hand launching a model, ask a fellow RC pilot to throw the model for you so you can concentrate on controlling the model with your radio transmitter.



If the toss is firm and level or slightly upward, hand launching is very easy. With time, you will master the technique under changing conditions depending on wind, etc.

To land the Skynetic Shrike Glider, reduce throttle with the wings level, and allow the model to glide on an even glideslope down to the ground. Be sure to move the throttle position to zero at least two seconds before the model lands, to allow enough time for the propeller to fold safely rearward.

Once landed, activate Throttle Lock, disconnect the flight battery, then inspect the model for any damage.



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