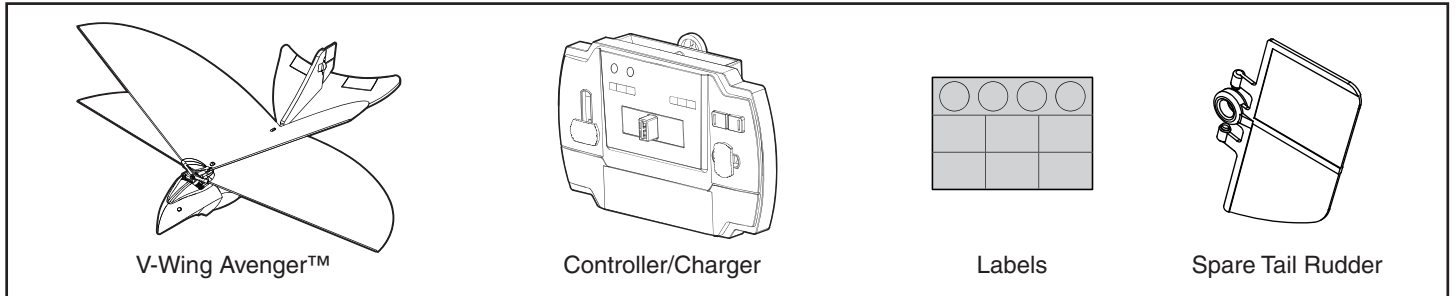


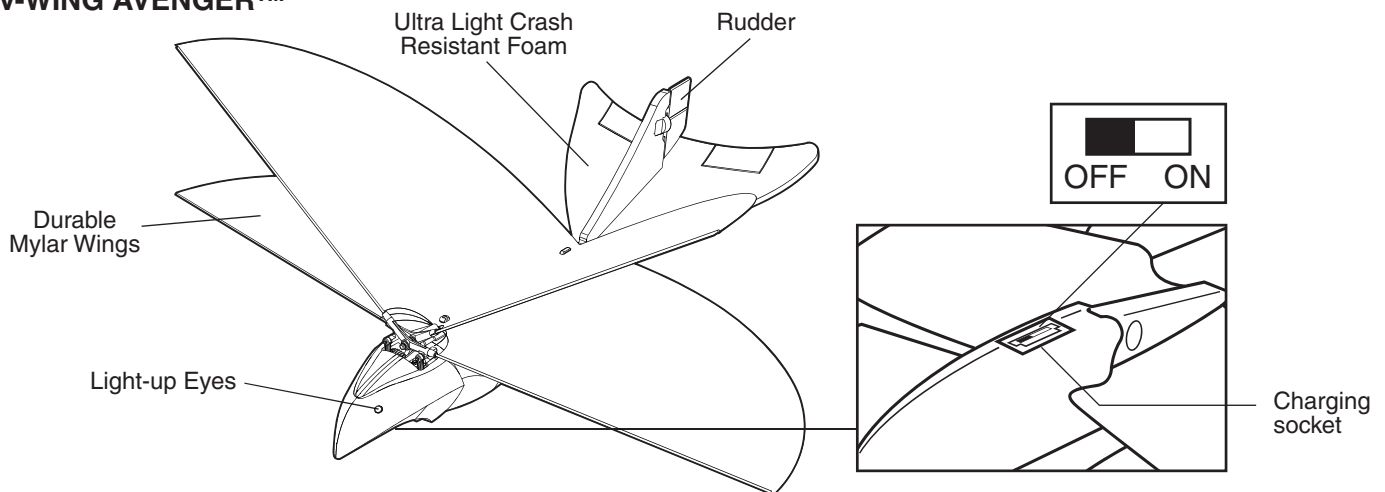


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Do not return your  
Air Hogs® to the store.  
Call the Air Hogs®  
flight training center  
at  
**1-800-622-8339**

## CONTENTS LIST AND PARTS IDENTIFICATION



### V-WING AVENGER™



**⚠ WARNING:**  
**CHOKING HAZARD** – Small parts.  
Not for Children under 3 years.

"This product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC."

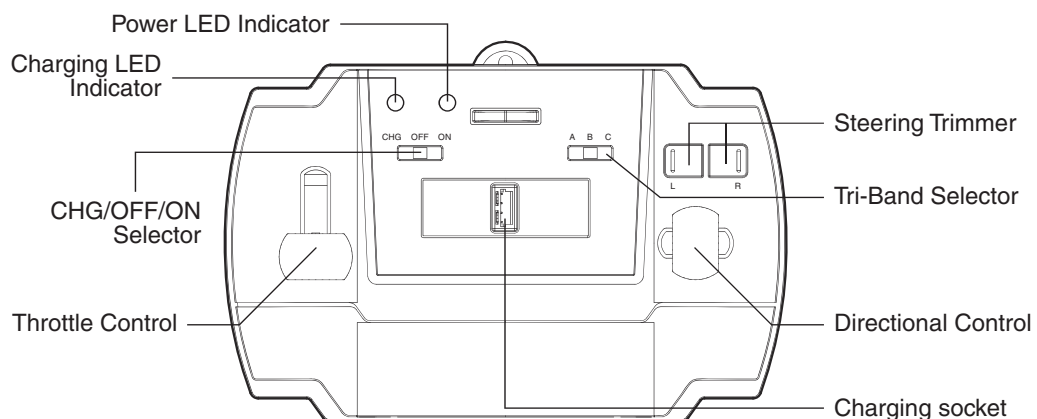


**⚠** Do not touch the flapping wings!  
Do not play above someone's head!  
Adult supervision is required!

**DANGER!**  
DO NOT PUNCTURE THE STYROFOAM!  
THE BATTERY WILL BE DAMAGED.

## BECOMING FAMILIAR WITH YOUR CONTROLLER/CHARGER

### CONTROLLER/CHARGER

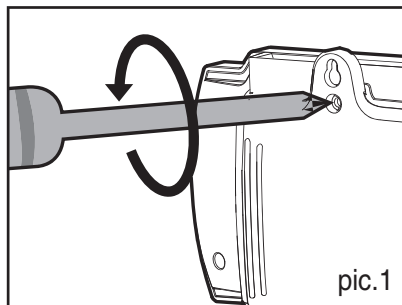


## HOW TO INSTALL YOUR BATTERIES

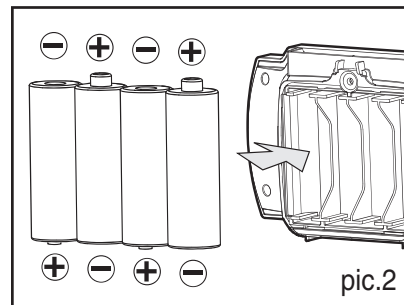
### BATTERY INSTALLATION – CONTROLLER/CHARGER

Make sure the power switch is in the OFF position.

1. Use a screwdriver to loosen the screw (counter-clockwise) on the battery case. (pic.1)
2. Put 4 AA size batteries in the battery compartment as per the polarity shown inside. (pic.2)
3. Tighten the screw clockwise.



pic.1



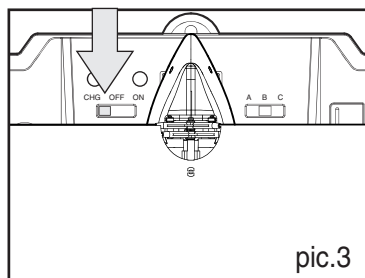
pic.2

## HOW TO CHARGE YOUR V-WING AVENGER™

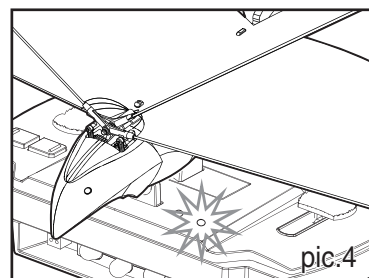
### BATTERY CHARGING

Turn the power OFF for both bird and controller/charger.

1. Carefully set bird into charging dock on controller/charger, ensuring that plug is aligned and inserted correctly into charge receptacle on bird.
2. Set the CHG/OFF/ON selector to CHG position. (pic.3)  
The green LED will light up. (pic.4)
3. The green LED will turn off when the battery is fully charged.
4. It may take up to 15-20 minutes to fully charge the battery and a fully charged battery can give up to 5 minutes of flight time. The charging times may vary as to the battery power.



pic.3



pic.4

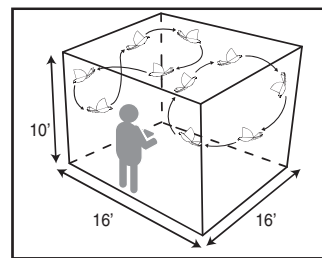
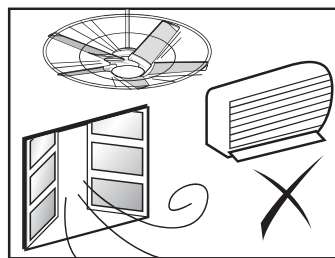
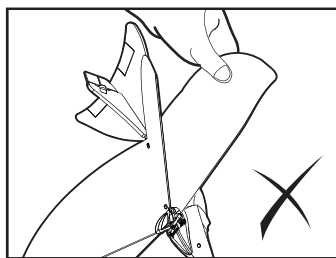
Bird attached to charging dock on controller/charger.

The green LED will light up when the bird is being charged.

## INDOOR SELECTION

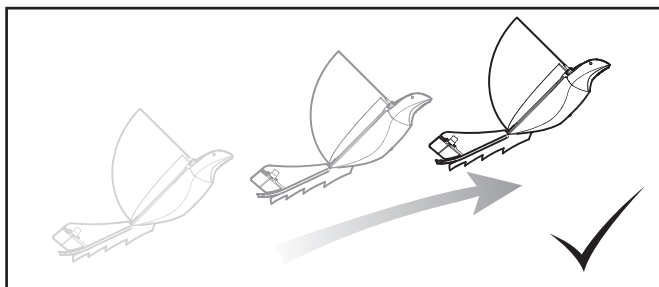
### INDOORS

1. It is best to fly your V-Wing Avenger™ indoors.
2. For optimal flights make sure all fans, windows and air conditioners are not creating a breeze.
3. Control distance is up to 16'.
4. Minimum flying space 16' x 16' x 10'.

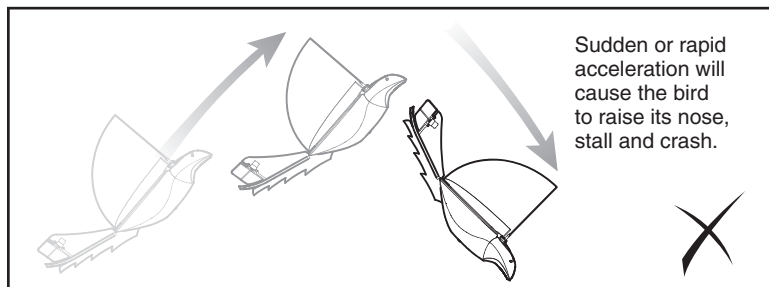


## FLYING YOUR BIRD

1. Make sure the controller/charger is OFF before turning on the bird.
2. Turn ON the bird then turn ON the controller/charger.
3. Set the right lever to the neutral position, then push the throttle to MAXIMUM to rev up the bird and hand toss it straight in front of you.

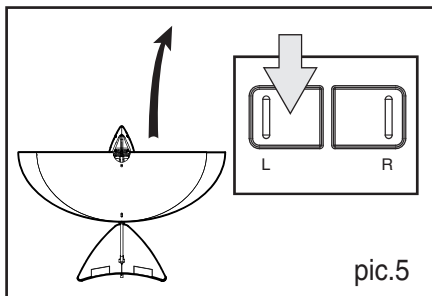


a) The correct flight pattern would be:

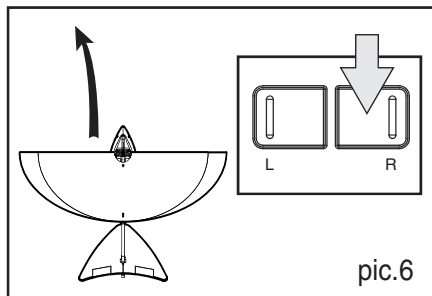


b) If the bird raises its nose very quickly, it may reduce speed and drop. You should pull the left lever down (throttle down) to straighten out.

4. If bird continuously turns right, push the "L" trim button repeatedly until it straightens out. (pic.5)  
If bird turns left, push the "R" trim button. (pic.6)



pic.5

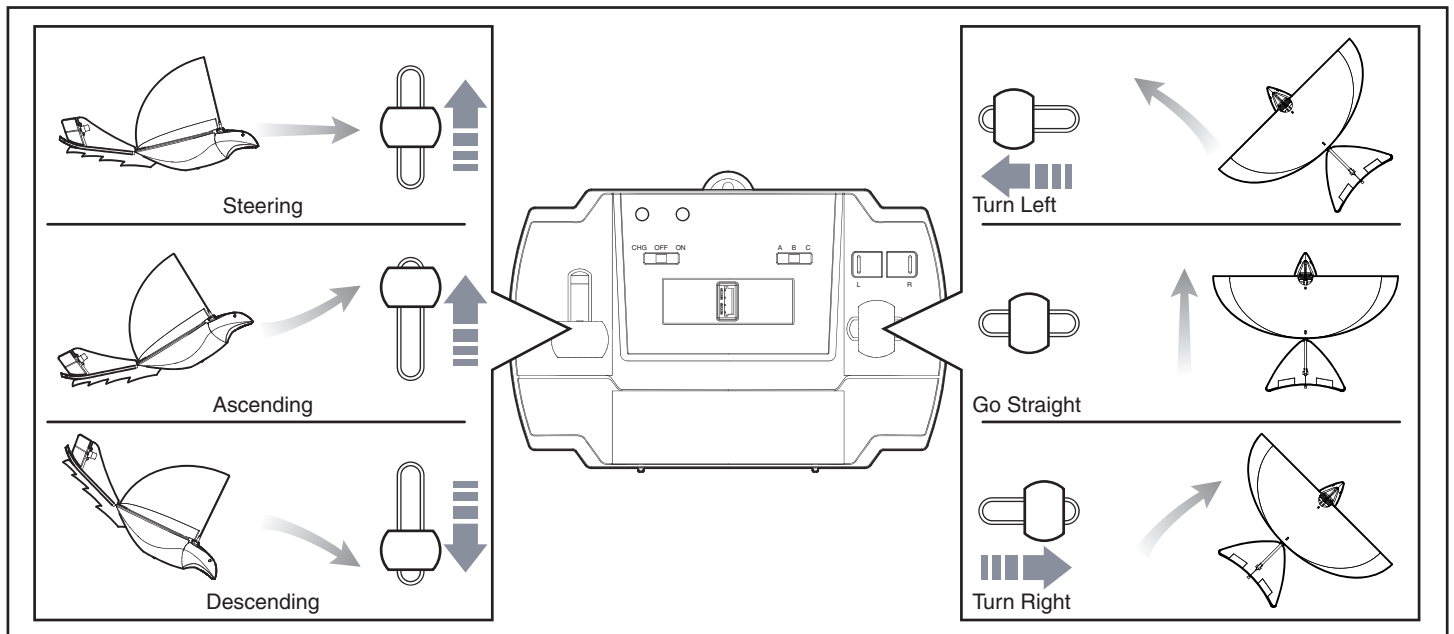


pic.6

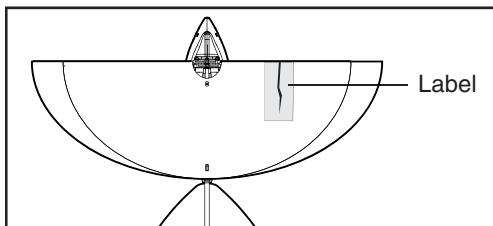
**IMPORTANT:**  
BIRD MUST BE  
TRIMMED CORRECTLY  
BEFORE FLYING!

## FLYING YOUR BIRD Cont'd

5. When your bird flies steadily, you can start to control the directional flight of your bird. Move the right lever to left or right to turn. You may need to pulse but not hold the right lever for easy adjustment. This function depends on the rear rudder, please note that if the bird responds slowly to your command, you should throttle up for better performance.

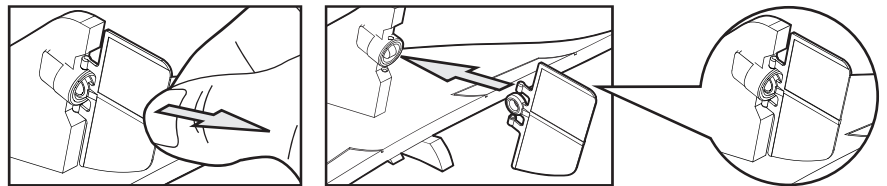


6. **Landing:** Steer your bird over a soft landing area and throttle down. Never try to catch your bird in mid-flight.  
 7. If your bird has minor damage, you can fix it as shown, with labels provided.



### 8. Replacing the Rudder:

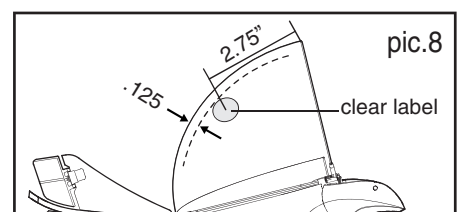
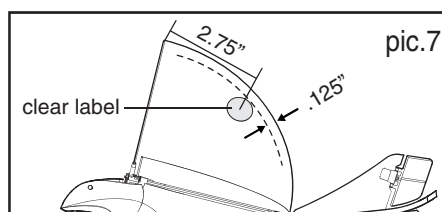
Remove the damaged or broken rudder as shown, then insert the new rudder.



## TIPS

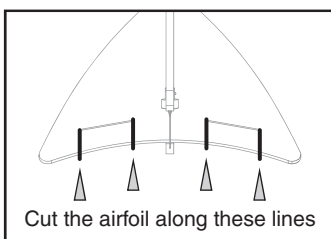
### Balancing the bird:

- If your bird is still turning to the RIGHT after trimming without pushing the direction lever, put a clear label on the LEFT upper wing (bottom side) about 2.75" from the tip to correct the imbalance (pic.7).
- If your bird is still turning to the LEFT after trimming without pushing the direction lever, put a clear label on the RIGHT upper wing (bottom side) about 2.75" from the tip to correct the imbalance (pic.8).
- You can add more than one label onto the wing to obtain proper balance. However, too many labels will increase the weight of the wing thus affecting the flying performance.



### Flying techniques for advanced users:

- Cut the rudder and elevator along the cutting lines indicated.
- You can use these to adjust the flight path before flying, but we suggest you use the steering trimmer first.
- You can bend the rudder to different angles to achieve a spiral cruise.
- If the elevator is adjusted too much up or down, the bird will go down quickly.



**CAUTION:**  
Cutting of the airfoil should be done by an adult.

Adjustment	Action
 Tune the elevator upwards	 Ascending
 Tune the elevator downwards	 Descending

## TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The wings won't flap.	- ON/OFF Switch is OFF. - Weak Battery.	- Set switch to ON. - Re-charge the battery pack.
The bird turns around and drops after taking off.	- Trimmer is not tuned properly. - Rudder is not in neutral position.	- Adjust the trimmer (see trimming section). - Re-tune the rudder.
Can't take off or drop down at flight.	- Weak power. - Flying at the wrong elevator angle or speed.	- Re-charge the battery pack. - Play for more skills, such as tune the Throttle Trimmer for precise power control or stroke (not hold) the left control lever on controller/charger.
Drop down at the climbing state or before take off.	- Weak power.	- Re-charge the battery pack.
The bird does not react, or reacts poorly to operation by controller/charger.	- Bright lights may be affecting performance.	- Play in a darker environment or dim the lights.
Loss of control.	- Out of the control range of distance. - Weak power of controller/charger.	- The bird flies up to 16' in open space. - Replace all old batteries with new ones.
Bird cannot be charged after connecting with charging socket.	- Bird is not connected properly. - CHG/OFF/ON button is not set.	- Pull it out and connect again. - Push the CHG/OFF/ON button to OFF and then CHG again.

For further questions and problems, please visit our website [www.airhogs.com](http://www.airhogs.com).

### Safety Precautions:

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

- Keep hands, hair and loose clothing away from the wings when power switch is turned ON.
- Turn off controller/charger and V-Wing Avenger™ when not in use.
- Remove battery from controller/charger when not in use.
- Parental guidance is recommended for the flight.
- Keep your bird in your sight so that you can supervise it at all times.
- New and alkaline batteries are recommended for use in controller/charger to obtain best and maximum performance.
- You are advised to replace with new batteries as soon as the function becomes impaired.
- Users should keep and retain this information for future reference.
- Users should keep strict accordance with the instruction manual while operating the product.
- Your controller/charger is tailor-made for the Li-Poly rechargeable battery used in bird. Do not use it to charge any battery other than that in the bird.

### Battery Cautions:

- Non-rechargeable batteries are not to be recharged
- Rechargeable batteries are to be removed from the toy before being charged (controller/charger only).
- Rechargeable batteries are only to be charged by an adult
- Different types of batteries or new and used batteries are not to be mixed (controller/charger only).
- Only batteries of the same or equivalent type as recommended are to be used.
- Batteries are to be inserted with correct polarity.
- Exhausted batteries are to be removed from the toy (controller/charger only).
- The supply terminals are not to be short-circuited.

**Your bird is equipped with a Li-Poly battery, please also pay attention to the following cautions for safety use:**

- Do not dispose of the battery in fire.
- Do not use or leave the battery near a heat source such as fire or heater.
- Do not strike or throw the battery against a hard surface.
- Do not immerse the battery in water, and keep the battery in a cool dry environment.
- When recharging, only use the battery charger specifically for that purpose.
- Do not over-discharge the battery.
- Do not connect the battery to an electrical outlet.
- Do not directly solder the battery and pierce the battery with a nail or other sharp object.
- Do not transport or store the battery together with metal objects such as necklaces, hairpins etc.
- Do not disassemble or alter the battery.
- Charge the battery every 6 months.
- Turn off your equipment power switch after use.
- As for a used battery, please recycle after covering the battery terminals with insulation tape or inserting it to an individual poly-bag.

### Care and Maintenance:

- Always remove batteries from the toy when it is not being used for a long period of time. (For controller/charger only)
- Wipe the toy gently with a clean damp cloth.
- Keep the toy away from direct heat.
- Do not submerge the toy into water that can damage the electronic assemblies.

### Note:

- Parental guidance is recommended when installing or replacing batteries.
- Under the environment with electrostatic discharge, the sample may malfunction and require user to reset the sample.

### Special Note to Adults:

- Regularly examine for damage to the plug, enclosure and other parts. In the event of any damage, the toy must not be used with the controller/charger until the damage has been repaired.
- This toy is not intended for children under 3 years old.
- This toy must only be used with the recommended charger
- Do not try to charge other batteries with controller/charger.

#### Battery requirement for V-Wing Avenger™:



Power Supply :   
 Rating : DC 3.7 V, 1.85 W  
 Batteries : 1 x 3.7 V Li-Poly Rechargeable Battery Pack  
 Requires 1 x 3.7 V Li-Poly Rechargeable Battery Pack (included)

#### Battery requirement for Controller/Charger:



Power Supply :   
 Rating : DC 6 V, 0.72 W  
 Batteries : 4 x 1.5 V "AA"/LR6/AM3  
 Requires 4 x 1.5 V "AA" size batteries (not included)

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 Spin Master Inc., PMB #10053, 300 International Drive, Suite 100, Williamsville, NY 14221, USA  
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