# INSTRUCTION MANUAL

## AEROBOARD

*Micro RTF Aircraft*

FUN IS ALL THE RAGE
RAGE RC

SAFETY WARNINGS:
- All of the safety and operating instructions should be read, adhered to and followed before the unit is operated.
- To avoid injury, do not touch the product while flying or the propeller while moving.
- Be careful to keep your body and any loose clothing away from the moving propellors.
- Do not modify or change this product without authorization

## Specifications:

| | |
|---|---|
| Width (Diagonal Shaft to Shaft): | 4.25” (108mm) |
| Total Width: | 2.83” (72mm) |
| Total Depth: | 6.3” (160mm) |
| Height: | 4.72” (120mm) |
| Battery: | 380mAh LiPo |
| Charger: | USB charger |
| Transmitter: | 4-channel, 2.4GHz |
| Flight Time: | Up to 7 minutes |

## Thank you for purchasing the Rage RC AeroBoard!

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!

Because the AeroBoard is a RTF (Ready-To-Fly) aircraft, it arrives factory-assembled with everything needed to experience the fun of micro RC flight - indoors, or outside in light winds. The AeroBoard pilot comes in your choice of 3 brightly colored character designs with decals included to create your own look. The Aeroboard also includes a 2.4GHz 4-channel transmitter (with sticks and buttons that match the color of your pilot), and a USB charger for the flight battery. Just add 3 AAA batteries for the transmitter and you can be testing your flying skills around the house or in your back yard within minutes of opening the box.

## Safety Precautions and Warnings

- As the user of this product, you are solely responsible for operating in a way that does not endanger yourself and others or results in property damage.
- Always operate your product in open spaces away from full-size vehicles, traffic, and people, making sure to maintian a safe distance around your product to avoid injuries to people or damage to property.
- Do not leave the product in direct sunlight or in hot spaces such as an automobile.
- To avoid injury, do not fly near your face. Keep props away from your fingers, hair, eyes, or other body parts.
- Do not fly toward people or animals.
- This product is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
- Always keep small parts and anything electrical out of reach of children.
- Avoid any water exposure to this product. Moisture causes damage to electronics.
- Never place any protion of the model in your mouth as choking could cause serious injury.
- Never operate your transmitter with low transmitter batteries and do not mix new and used batteries.
- Batteries should be recycled or disposed of per state and local guidelines.
- Always keep transmitter powered on while aircraft is powered.
- Always keep aircraft in sight and under control.
- WARNING: Do not fly if props become damaged or broken. Flying with damaged props could lead to damage or cause injury.

## FC CE Supplier's Declaration of Conformity

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference recieved, including interference that may cause undesired operation.

## BATTERY SAFETY PRECAUTIONS

Important Note: Lithium Polymer (LiPo) batteries are more volitile than alkaline, NiCad, and NiMH batteries used in other RC applications. All instructions and warnings must be followed exactly to prevent possible personal injury or damage to property, including by fire. By handling, charging, or using the included LiPo battery you assume all potential risks. If you do not agree with these conditions, please return your complete product in new, unused condition to place of purchase immediately. Important - Please read the following safety instructions and warnings before handling, charging, or using the included battery.

- You must charge the LiPo battery in a safe area away from any flammable materials.
- Never charge the LiPo battery unattended at any time. When charging the battery you should always remain in constant observation of the battery to monitor the process and react immediately to potential problems you observe.
- After discharging the battery during operation you must allow it to cool to ambient room temperature before attempting to recharge. Also, it is NOT recommended that you completely discharge the battery before charging.

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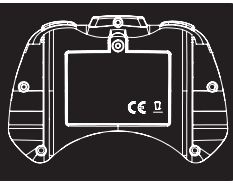
## BATTERY SAFETY PRECAUTIONS CONTINUED

- For charging the battery you must use the included charger. Failure to do so may result in a fire causing property damage and/or personal injury. DO NOT use NiCad or NiMH chargers to charge your new LiPo battery.
- If, at any time during the charge or discharge process the battery begins to "balloon" or swell, discontinue charging or discharging immediately! Quickly and safely disconnect the battery before placing it in a safe, open area away from flammable materials for observation for at least 15 minutes. Continuing to charge or discharge a battery that has started to "balloon" or swell can result in a fire. Important note: A battery that has "ballooned" or swollen even a small amount must be removed from service immediately!
- Always disconnect a battery from the product when the product is not in use.
- Avoid continuing to operate the battery after LVC (Low Voltage Cutoff) as this could result in damage to the battery.
- Store the battery partially charged (approximately 50% charged or 3.85V per cell) at room temperature (approximately 68º to 77º Fahrenheit) in a dry area for best results.
- When transporting or temporarily storing the battery, the temperature range should be between 40º and 100ºF. Do not store the battery inside a hot car or in direct sunlight or the battery could be damaged or even catch fire.
- LiPo cells should not be discharged below 3.0V each. In the case of this 1-cell, 3.7V battery you should not allow the voltage to fall below 3.0V during operation.
- Do not over-discharge the LiPo battery, doing so could result in reduced power, lower run times or complete failure of the battery.

**NOTE:** To avoid damage to your battery, your aircraft features a "soft" LVC (Low Voltage Cutoff) that smoothly reduces power (regardless of your throttle position) to let you know the battery is near the minimum voltage.

### Installing Transmitter Batteries:

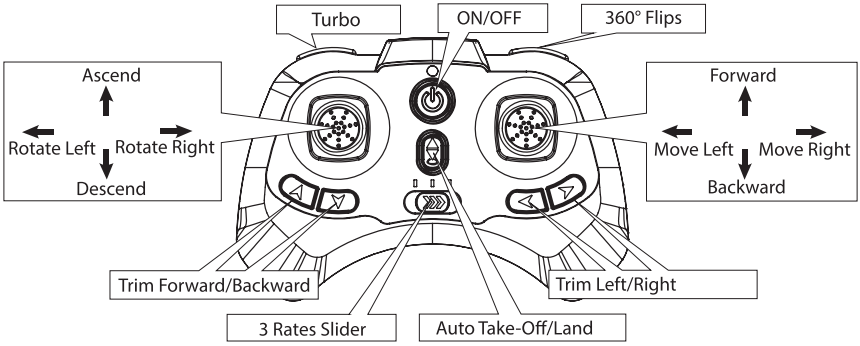
- Open the battery compartment and insert three AAA batteries.
- Make sure that you match the polarities (+ and -) as marked inside.
- Replace the cover and screw in place.



### Charging The Flight Battery:

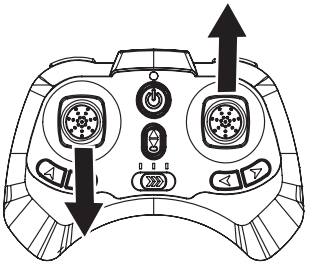
1. Unplug the battery from the aircraft.
2. Plug the charge cord into the USB port on your computer, portable power source, or USB adapter.
3. Connect the battery to the charge cord as shown.
4. The charging process will take approximately 45 to 60 minutes
5. As a safety precaution, disconnect the battery from the charge cord after the charge cycle is complete.
6. While charging, the red LED indicator on the charge cord will be on. When charging is complete, the LED indicator will turn

# Operating Instructions




- Connect the charged battery to the unit and position the plugs to the side of the battery for the best fit inside the compartment. Move the silver bar back into place to lock the compartment.
- Chose a flying location based on conditions and available space. Beginners should choose a larger space with taller ceilings to make sure they have the necessary space to learn the controls. Make sure to only fly outdoors in little to no wind conditions.
- Select a flying rate (see transmitter drawing) based on the space available and the skill level of the pilot. As a general rule, the smaller the flying space, the lower the flying rate and beginners should start on low rate until their skills increase.
- Press the On/Off buttton on the transmitter and the red LED will begin to flash. With the battery installed, press the On/Off button between the character's legs until the LED's turn on. The LED on the transmitter should then turn solid. To arm the motors, move the left transmitter stick to the top until you hear one beep, then pull the stick all the way down until you hear a second beep.
- To take off, press the Auto-Take-Off-Land button and the aircraft should launch to a height of approximately 4ft and maintain a steady hover. Or, to take off manually, raise the left stick slowly until the aircraft reaches your desired height. After releasing the throttle stick, the Altitude Hold feature will keep the aircraft at that height. If when using Auto Take-Off the aircraft raises significantly above the height of 4ft, follow the steps on page 6 to calibrate.
- See the transmitter diagram for movements and control during operation.
- If the aircraft tends to "drift" in any direction during flight, use the trim buttons as shown in the transmitter diagram to make the necessary corrections.
- For 360° flips, press the Flip button on the top right of the transmitter and you should hear a beep sound. You then have 2 seconds to move the right transmitter stick to the right or left to flip. Note that completing multiple flips during a flight will reduce the flight time.
- To enable the Turbo feature, press and hold the button on the top left of the transmitter. A beep will sound and the aircraft will have and extra burst of speed. When the button is released the aircraft will go back to flying at the rate set on the transmitter.
- Before the aircraft reaches LVC (low votage cutoff) the LED on the back of the aircraft will begin to flash. Make sure to land the aircraft as soon as possible once the flashing LED is noticed. Note that you will have approximately 2 minutes of flight time to land the aircraft once the flashing LED is noticed.
- To land the aircraft, either press the Auto-Take-Off/Land button or slowly lower the left transmitter stick until the aircraft gently lands.
- If you want to switch your flying characters or your character becomes detached from the flying base, it can easily be attached by snapping the clips on the base into the open spaces on the bottom of the characters feet.

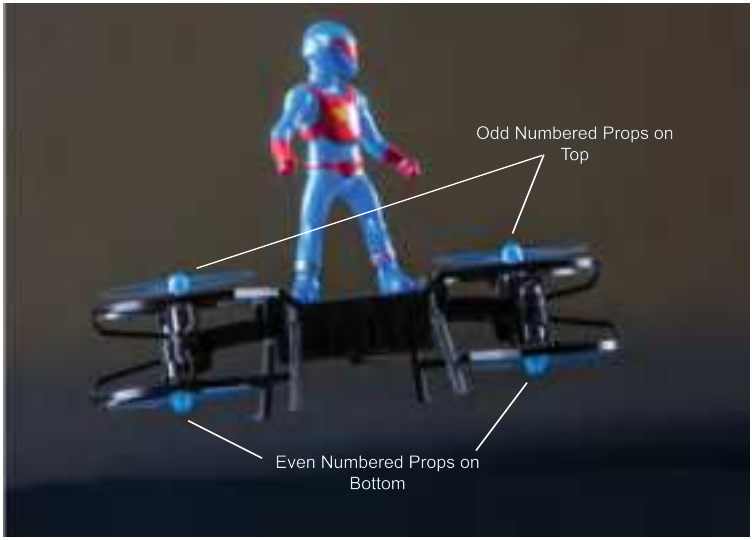
## Calibration



- Calibration can be used to reset the gyro stabilization system of the AeroBoard . Make sure to follow these steps after a crash or whenever the aircraft is flying erratically.
- Turn on the transmitter. Then, place the aircraft on a level surface with the battery installed. Press the On/Off button to turn on the aircraft and then arm the motors by moving the left transmitter stick up and then down.
- Move the left transmitter stick all the way down and the right transmitter stick all the way up, as shown in the diagram.
- Both LED's on the aircraft will flash rapidly for a few seconds. When the flashing stops, calibration is complete and the aircraft is ready for flight. If the aircraft continues to fly erratically, you may need to repeat the calibration process. If calibration does not solve the issue check to make sure that dust or hair has not been wrapped around the props or for damage to any of the props. Replace damaged props, as needed.

## Prop Replacement

- Each of the props have a designated number shown on the bottom – 1 through 4.
- When replacing a prop, make sure the top replacement prop is odd numbered and a bottom prop is even numbered.
- When installing the new prop, make sure that it is not pushed too tightly onto the shaft that it keeps the prop from spinning freely when in flight.



**Replacement Parts**

| Part Number | Description |
|---|---|
| RGR4570 | AeroBoard RTF, Patriot |
| RGR4571 | AeroBoard RTF, Robot |
| RGR4572 | AeroBoard RTF, Skater |
| RGR4573 | Propeller Set (4) Blue |
| RGR4574 | Propeller Set (4) Gray |
| RGR4575 | Propeller Set (4) Orange |
| RGR4576 | Decal Sheet; AeroBoard logos |
| RGR4577 | Racing Hoops (2) |
| RGR4579 | 2.4GHz Transmitter, Blue |
| RGR4580 | 2.4GHz Transmitter, Gray |
| RGR4581 | 2.4GHz Transmitter, Orange |
| RGR4582 | AeroBoard Decal Sheet; Patriot |
| RGR4583 | AeroBoard Decal Sheet; Robot |
| RGR4584 | AeroBoard Decal Sheet; Skater |
| RGR4534 | USB Charge Cord |
| RGR4533 | 3.7V 300mAh Lipo Battery |

# Warranty Period

Warranty Period: Rage RC warrants that the ("Product") will be 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 RC authorized service center, or (e) Product not purchased from an authorized Rage RC dealer.

OTHER THAN THE EXPRESS WARRANTY ABOVE, RAGE RC MAKES NO OTHER WARRANTY OR REPRESENTATION, AND THEREFORE 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 RC's sole obligation and purchaser's sole and exclusive remedy shall be that Rage RC will, at its option, either (a) service, or (b) replace, any Product determined by Rage RC to be defective. Rage RC 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 RC. 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 RC 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 RC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Further, in no event shall the liability of Rage RC exceed the individual price of the Product on which liability is asserted. As Rage RC 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 RC reserves the right to change or modify this warranty at any time.

Rage RC, an exclusive brand of:
HRP Distributing, Inc.
2034 South 3850 West
Salt Lake City, Utah 84104

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# FCC Requirement

changes or modifications not expressly approved by the party responsible for compliance could void the user' s authority to operate the equipment.
This device complies with Part 15 of the FCC Rules. 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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

## Aeroplane FCC 20cm Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.