

# Quick Start Guide

**NOTE:** Before you start running your new Mini-V, it is absolutely necessary that you read through all of the operating instructions to prevent unnecessary damage and get the maximum enjoyment from your boat.

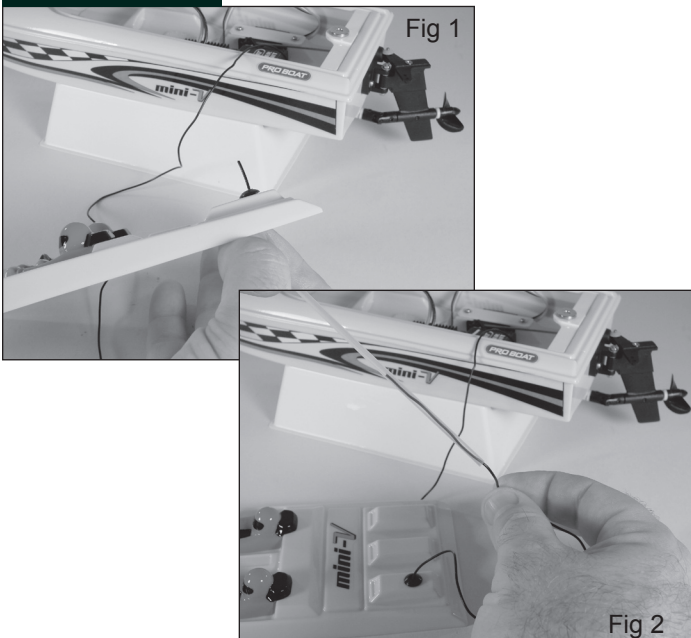
## Step 1



Plug the AC charger into the proper wall receptacle (110V). Plug the battery pack into the charger and let it charge for 1 hour for the first time. Closely monitor the battery temperature for the next hour. If the battery begins to warm, stop charging immediately.

After running, or when the Mini-V slows noticeably, recharge the battery pack for 1–2 hours for a full charge. Be sure to charge the battery on a non-flammable surface. Over-charging can damage the battery and cause injury or fire. Never charge the battery while it is mounted in the Mini-V and allow it to cool after each run.

## Step 3



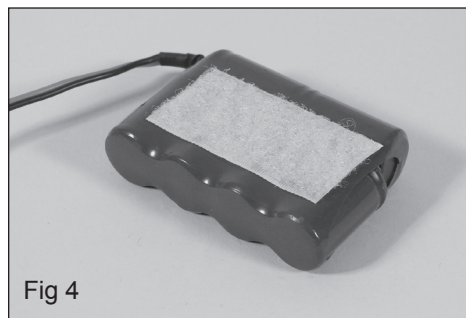
Push the antenna tube (Fig. 1) into the antenna mount. Insert the antenna wire through the antenna mount and into the antenna tube (Fig. 2) pushing it through until it comes out the other end.

## Step 2



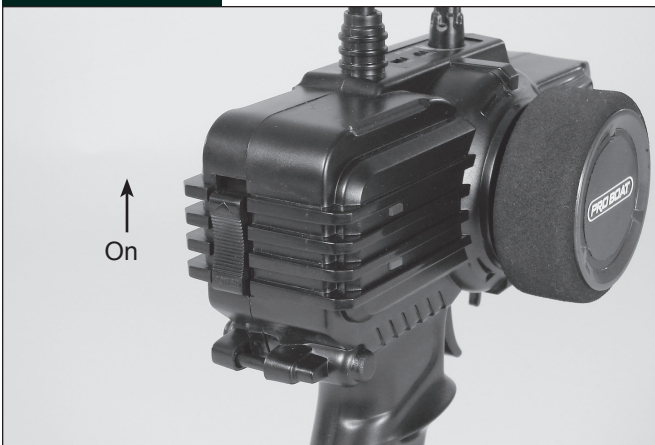
Remove the transmitter battery cover by sliding the cover from left to right. Install eight (8) AA batteries into the battery holder. Pay close attention to the correct direction of the positive (+) and negative (-) ends as marked in the tray. Once all 8 batteries have been installed, reinstall the battery cover by sliding it on from right to left.

## Step 4



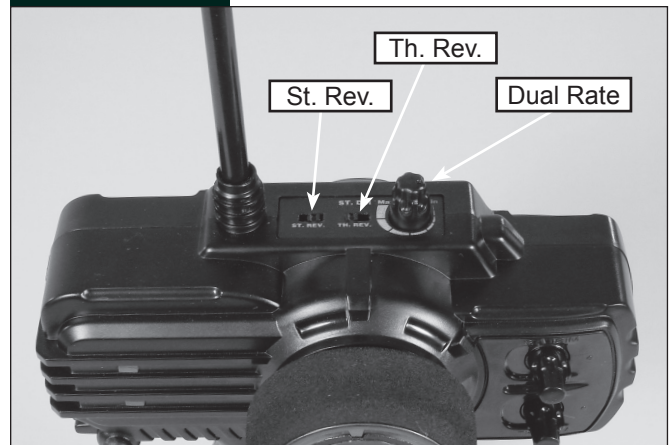
Once the battery is charged, apply the supplied hook & loop tape to the hull (Fig. 3) and battery (Fig. 4) as shown. Confirm that the receiver switch is in the "OFF" position and install the battery pack as shown. Plug the battery pack into the ESC (Fig. 5).

## Step 5



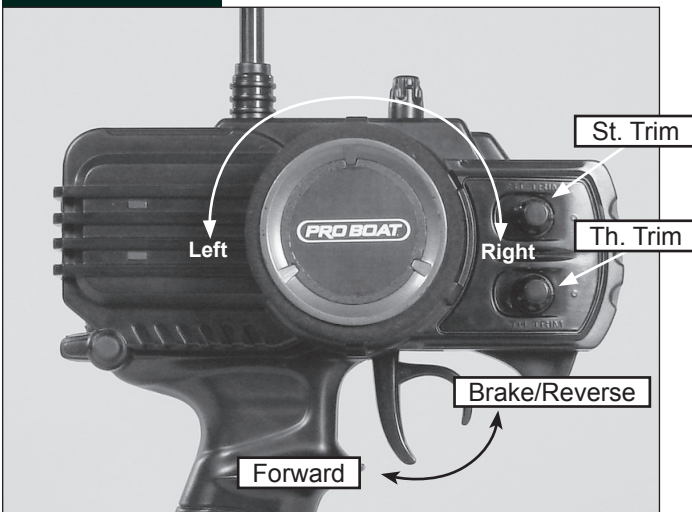
Always turn on the transmitter first by sliding the switch on the rear of the transmitter upwards. The small red and green lights on the side of the transmitter should both light up. If not, you need to check for low or incorrectly installed batteries.

## Step 7



If you find the steering or throttle operate backwards as described in Step 6, you may need to switch the servo reversing as shown. In addition, you may also turn the dual rate dial down to reduce rudder travel in rough water conditions.

## Step 6



Once the transmitter has been turned on, turn on the Mini-V by sliding the switch on the speed controller to the "On" position. If the propeller spins, adjust the "Th. Trim" knob located to the lower right of the steering wheel until it stops. To go forward, pull the trigger back. If you should need reverse, wait for the model to stop then push the trigger forward. When going forward the model should move in a straight line. If not, adjust the "St. Trim" so that it tracks in a straight line without having to turn the steering wheel. After you are finished, turn the Mini-V receiver off **FIRST** by sliding the switch to the "OFF" position. After the model has been turned off, turn off the transmitter.

## Frequency/Channel Guide

Channel/Color	Frequency
Ch. 1 (Brown)	26.995MHz
Ch. 2 (Red)	27.045MHz
Ch. 3 (Orange)	27.095MHz
Ch. 4 (Yellow)	27.145MHz
Ch. 5 (Green)	27.195MHz
Ch. 6 (Blue)	27.255MHz

### ALWAYS

- Turn on the transmitter before the boat.
- Use caution when running your boat near people.
- Turn both the Mini-V and transmitter "off" when done.
- Check the battery condition of the transmitter before running.

### NEVER

- Operate the Mini-V with low battery power.
- Run the Mini-V with a damaged propeller.
- Run the Mini-V with wet electronics.

# Mini-V Troubleshooting Guide

Doesn't operate	Battery not charged or plugged in Receiver switch not "on" Transmitter not "on" or low battery	Charge battery / plug-in Turn on receiver switch Turn on / replace batteries
Motor runs but propeller doesn't move	Loose U-joint setscrews Binding drivetrain	Tighten setscrews Inspect/lubricate drivetrain
Steering doesn't work	Servo plug not in receiver Servo gears or motor damaged	Check if plugged in all the way Replace or repair servo
Won't turn one direction	Servo gears damaged Trim set improperly	Replace servo gears Adjust trim
Motor doesn't run	Motor plugs loose Motor wire broken ESC damaged	Plug in completely Repair or replace as needed Call Electronics Tech
ESC gets hot	Driveline bound up	Check drivetrain for binds
Poor run time and/or sluggish acceleration	Battery pack not fully charged Charger not allowing full charge Motor worn out Driveline bound up	Recharge Try another charger Replace motor Lubricate drivetrain Unbind or remove obstruction from drivetrain
Poor range/glitches	Transmitter battery low Transmitter antenna loose Battery low in boat Loose plugs or wires	Check & replace as necessary Check & tighten Replace or recharge Check motor and power plugs

## Warranty Period

Exclusive Warranty- Horizon Hobby, Inc., (Horizon) warrants that the Products purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase by the Purchaser.

## Limited Warranty

(a) This warranty is limited to the original Purchaser ("Purchaser") and is not transferable. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. This warranty covers only those Products purchased from an authorized Horizon dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims. Further, Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

(b) Limitations- HORIZON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

(c) Purchaser Remedy- Horizon's sole obligation hereunder shall be that Horizon will, at its option, (i) repair or (ii) replace, any Product determined by Horizon to be defective. In the event of a defect, these are the Purchaser's exclusive remedies. Horizon reserves the right to inspect any and all equipment involved in a warranty claim. Repair or replacement decisions are at the sole discretion of Horizon. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance, or attempted repair by anyone other than Horizon. Return of any goods by Purchaser must be approved in writing by Horizon before shipment.

### **Damage Limits**

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. 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 this Product, you are advised to return this 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).

### **Safety Precautions**

This is a sophisticated hobby Product and not a toy. 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. The Product 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 injury.

### **Questions, Assistance, and Repairs**

Your local hobby store and/or place of purchase cannot provide warranty support or repair. Once assembly, setup or use of the Product has been started, you must contact Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please direct your email to [productsupport@horizonhobby.com](mailto:productsupport@horizonhobby.com), or call 877.504.0233 toll free to speak to a service technician.

### **Inspection or Repairs**

If this Product needs to be inspected or repaired, please call for a Return Merchandise Authorization (RMA). 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.** A Service Repair Request is available at [www.horizonhobby.com](http://www.horizonhobby.com) on the "Support" tab. If you do not have internet access, please include a letter with your complete name, street address, email address and phone number where you can be reached during business days, your RMA number, a list of the included items, method of payment for any non-warranty expenses and a brief summary of the problem. Your original sales receipt must also be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

### **Warranty Inspection and Repairs**

**To receive warranty service, you must include your original sales receipt** verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be repaired or replaced free of charge. Repair or replacement decisions are at the sole discretion of Horizon Hobby.

### **Non-Warranty Repairs**

**Should your repair not be covered by warranty the repair 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 repair you are agreeing to payment of the repair without notification. Repair estimates are available upon request. You must include this request with your repair. Non-warranty repair estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Please advise us of your preferred method of payment. Horizon accepts money orders and cashiers checks, as well as Visa, MasterCard, American Express, and Discover cards. If you choose to pay by credit card, please include your credit card number and expiration date. Any repair left unpaid or unclaimed after 90 days will be considered abandoned and will be disposed of accordingly. **Please note: non-warranty repair is only available on electronics and model engines.**

Electronics requiring inspection or repair should be shipped to the following address:

Horizon Service Center  
4105 Fieldstone Road  
Champaign, Illinois 61822

All other Products requiring warranty inspection or repair should be shipped to the following address:

Horizon Product Support  
4105 Fieldstone Road  
Champaign, Illinois 61822

**Please call 877-504-0233 with any questions or concerns regarding this product or warranty.**

