

READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

SCAN QR CODE WITH
YOUR SMARTPHONE
FOR INSTALL VIDEO



INCLUDES:

- Solar Battery Pack Assembly with 30-ft Cord
- **#18650 3.7v Rechargeable Lithium-Ion Battery (FLAT TOP STYLE) - PRE-INSTALLED**
- Pre-installed Wired Battery Compartment Adaptor FOR ACURITE IRIS SENSOR ONLY
- (3) Wire Routing Clips FOR ACURITE IRIS SENSOR ONLY
- (2) Short Screws for 3/4" POLE Mount
- (2) Long Wood Screws for SURFACE Mount

WHAT YOU WILL NEED:

- AcuRite Iris (5-in-1) or AcuRite Atlas or AcuRite Optimus Weather Sensor
- Phillips Screwdriver
- 3/4" Diameter Pole or Wood Surface/Post
- USB-C Charger (optional to "fully pre-charge battery pack")

INTRODUCTION:

AcuRite weather sensors are most accurate if they are mounted up as high as possible. For some installations, this makes replacing batteries more difficult. The AcuRite Weather Sensors feature a modular design that allows for the installation of certain accessories and upgrades. The Solar Battery Pack allows you to power your outdoor sensor with a solar-powered rechargeable battery, so you don't need to worry about replacing drained batteries in a hard-to-reach place anymore. The advanced solar cell will charge the included rechargeable lithium-ion battery with any available sunlight, and includes a convenient "push-to-check" battery level indicator for easy monitoring.

BEFORE INSTALLING OUTDOORS:

NOTE THAT THE RECHARGEABLE LITHIUM-ION BATTERY IS PRE-INSTALLED FOR YOUR CONVENIENCE.

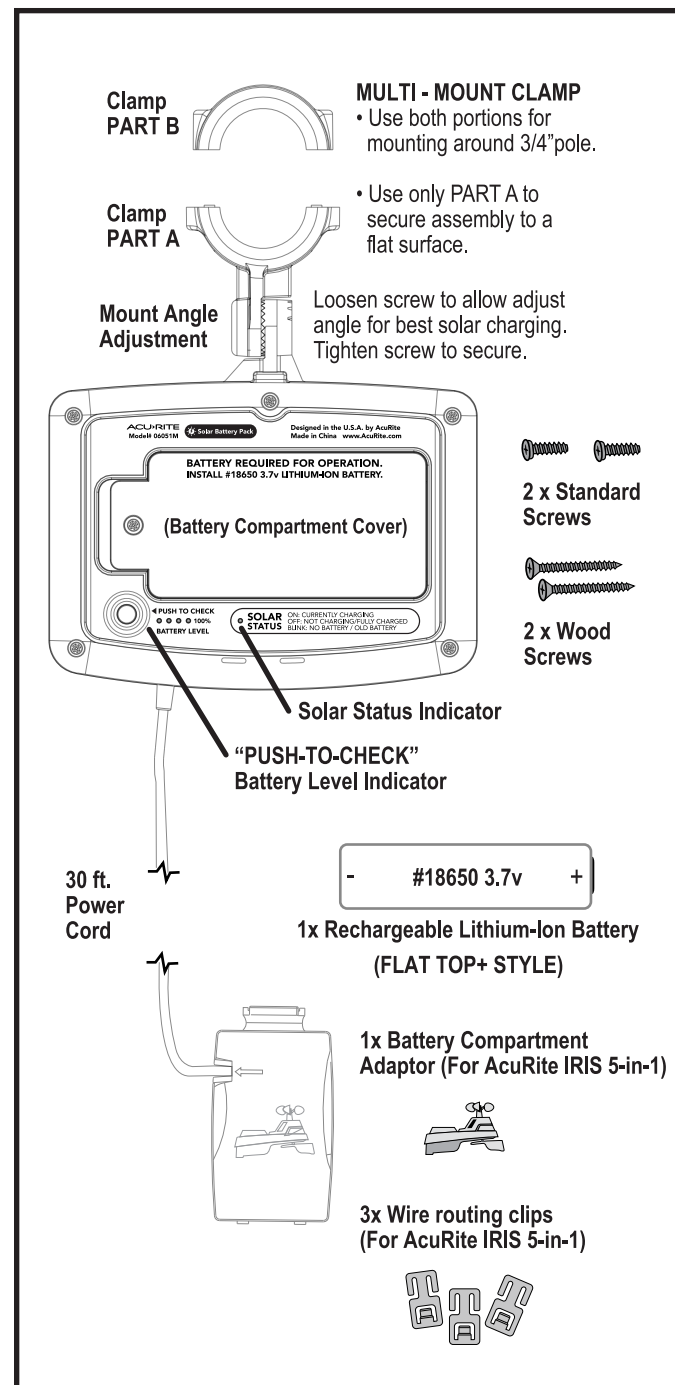
If the battery is at 25% (confirm the battery level with the battery level push-to-check meter), or will be installed in areas with lower sunlight, you may use the built in USB-C battery charger option to fully charge the battery for best operation. Locate the USB-C charging port within the battery compartment and charge the battery completely with a USB-C cable/charging point (not included). Utilize the integrated battery level indicator to determine when the battery is fully charged.

GENERAL SOLAR POWER CONSIDERATIONS:

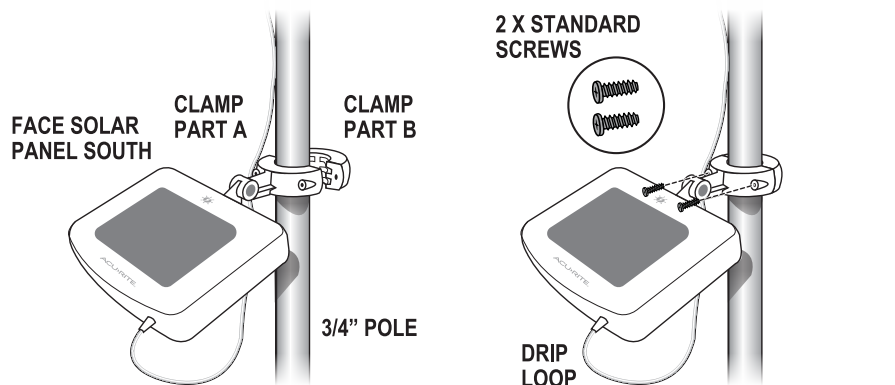
- Solar cells should generally face the sun for best operation. The U.S. is in the northern hemisphere, and solar cells should ideally be mounted to FACE SOUTH.
- The solar cell angle is determined by the "Mount Angle Adjustment". Loosen the Phillips screw to allow adjustment of the angle, tighten to lock.
- It is recommended to mount the solar cell closer to flat in the summer months to take advantage of the strong mid-day sun. Adjust the angle to be closer to 45° in the winter months to capture the lower sun angles.
- Adjusting the solar cell to a 45° angle also aides any potential snow to slide off easier.
- Photovoltaic solar panels work by absorbing sunlight to create electricity. This comes primarily from the sun directly, but can also come from sunlight reflected from surrounding areas. When fully charged, the included battery provides ample power to run the AcuRite Iris OR the AcuRite Atlas or the AcuRite Optimus for extended lengths of time without substantial sun exposure. Because of this efficiency, the Solar Power Pack does NOT need to be mounted in a manner that will expose it to full sun all day long. In most cases, ambient sunlight with occasional direct sun exposure will provide adequate power to provide uninterrupted weather station operation.
- Periodically check the solar cell surface for dust and/or debris and clean it with a damp cloth if necessary to maintain peak charging efficiency.

INDICATORS:

- **PUSH-TO-CHECK Battery Level Indicator:** Push to momentarily display the approximate battery charge level (25%, 50%, 75%, 100%). The battery DOES NOT need to be 100% charged to operate the Weather Station. Initially, the battery will likely read between 50%-75% charged. However, since the solar panel provides more power than the weather station consumes, the battery should charge to 100% and maintain that level after a week or so in adequate sunlight exposure.
- **SOLAR STATUS indicator:** IF the battery is NOT fully charged, the solar status indicator will illuminate solid to indicate the solar panel is receiving adequate sunlight AND is charging the less than 100% full battery. IF the indicator is NOT illuminated, this indicates the battery is fully charged and does not need to be charged from the solar panel. This also prevents OVERCHARGING the battery. IF the indicator is BLINKING, this indicates that either the battery is NOT installed (or installed incorrectly) or is too OLD to accept proper charging (replace 3.7v battery asap).



MOUNTING ON 3/4" POLE

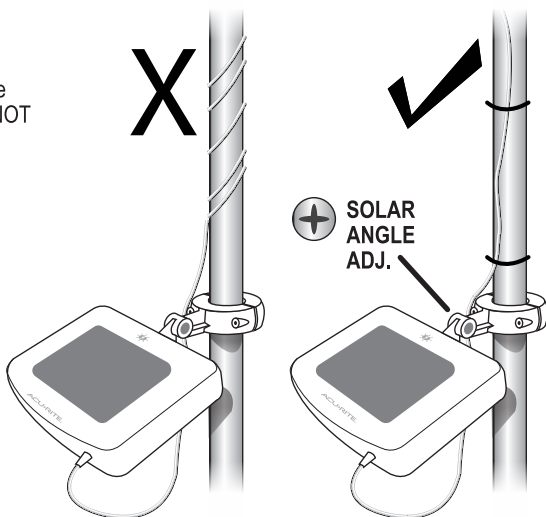


1. Unscrew standard screws to separate the two halves of the pole clamp. Position the solar power pack at an easy to reach height to allow for cleaning of the solar panel surface as necessary.
2. Re-insert and tighten standard screws to secure the two halves of the pole clamp around the pole. Position the wire to form a drip loop to aide in keeping excess water away.

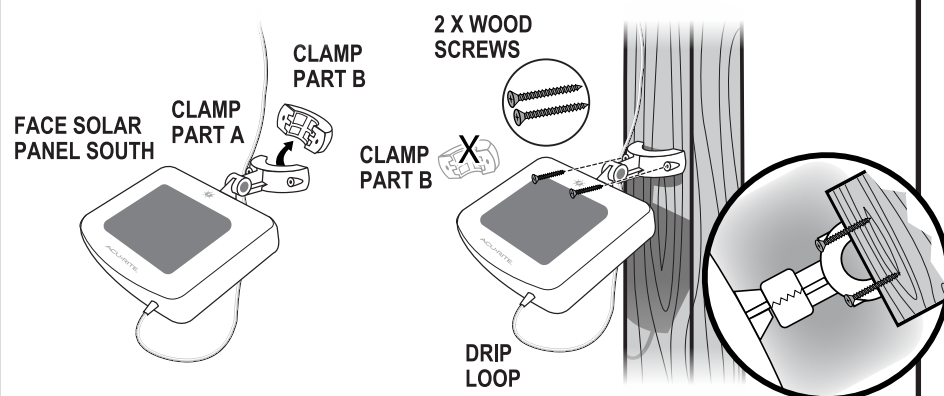
3. When routing the wire up to the AcuRite IRIS or AcuRite ATLAS weather sensor, DO NOT WRAP the wire around the pole as this can cause interference with the weather station wireless signal.

Wrap any excess wire in a loop and secure.

Adjust the solar panel angle for best position by loosening the screw on the Solar Angle Adjustment. Re-tighten screw to lock angle adjustments.



SURFACE MOUNT (Fence Post, Deck Post, Wall, etc.)

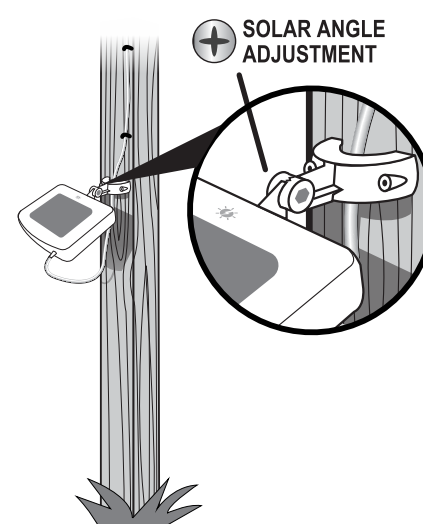


1. Unscrew standard screws to separate the two halves of the pole clamp. Position the solar power pack at an easy to reach height to allow for cleaning of the solar panel surface as necessary.
2. Insert and tighten the WOOD SCREWS to secure CLAMP PART A to a wood or similar surface. CLAMP PART B is not utilized in a surface mount installation (keep or discard). Position the wire to form a drip loop to aide in keeping excess water away.

3. When routing the wire up to the AcuRite IRIS or AcuRite ATLAS weather sensor, DO NOT WRAP the wire around the pole as this can cause interference with the weather station wireless signal.

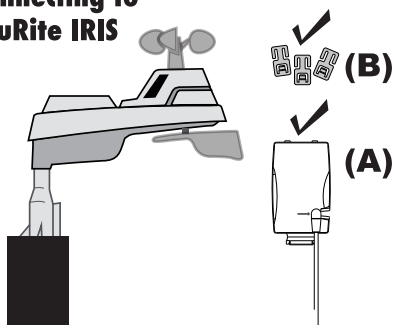
Wrap any excess wire in a loop and secure.

Adjust the solar panel angle for best position by loosening the screw on the Solar Angle Adjustment. Re-tighten screw to lock angle adjustments.



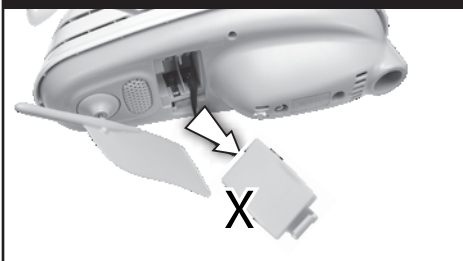
NOTE: Solar battery pack is NOT intended for use with mounting bracket supplied with your outdoor sensor.

Connecting to AcuRite IRIS



The included IRIS battery compartment adaptor (A) and wire routing clips (B) will be utilized for installation with the AcuRite Iris (5-in-1).

REMOVE BATTERY COMPARTMENT COVER



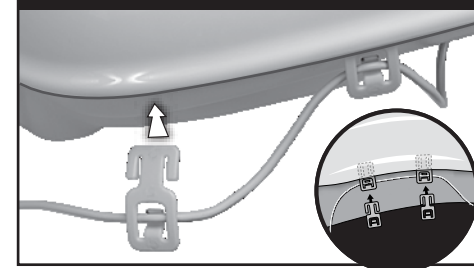
Remove the **original battery compartment cover** from the bottom of the AcuRite Iris Sensor (keep or discard). Remove batteries if currently installed.

INSTALL BATTERY COMPARTMENT ADAPTOR



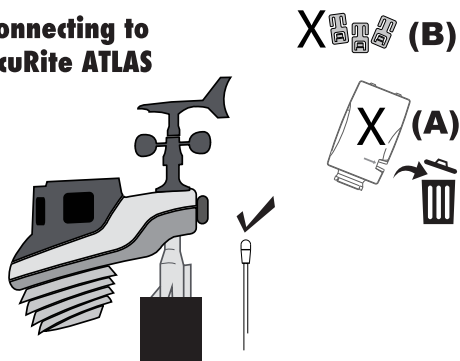
Install the wired battery compartment adaptor into the AcuRite Iris Sensor.

SECURE CABLE



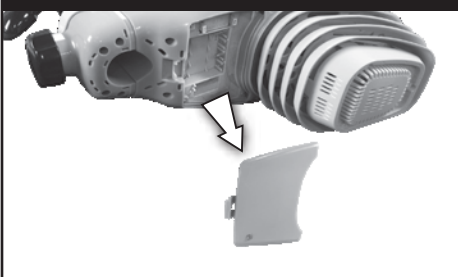
To further secure the wired battery compartment adaptor to the AcuRite Iris Sensor and prevent the wire from interfering with the wind vane, insert the (3) in-line clips into the 5-in-1 Sensor as shown.

Connecting to AcuRite ATLAS



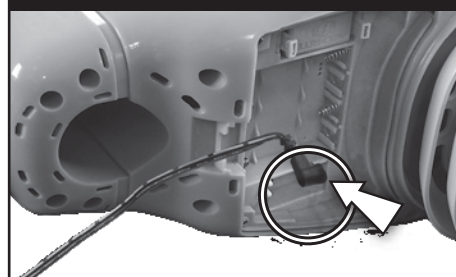
The included IRIS battery compartment adaptor (A) and wire routing clips (B) will **NOT** be utilized for installation with the AcuRite Atlas.

REMOVE BATTERY COMPARTMENT COVER



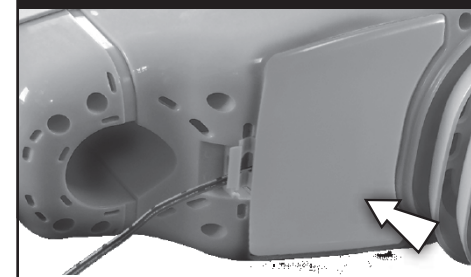
Remove battery compartment cover from the bottom of the AcuRite Atlas outdoor sensor. Remove batteries if currently installed.

INSERT SOLAR POWER PACK ADAPTER PLUG



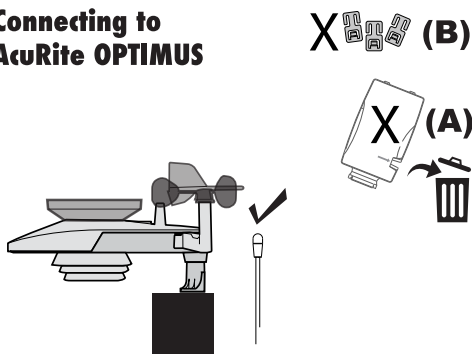
Plug the power adapter cord into the battery compartment of the sensor.

LOOP CORD AND REPLACE BATTERY COMPARTMENT COVER



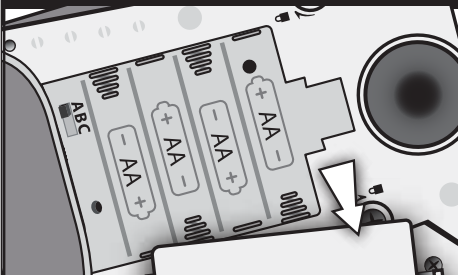
Loop the cord through the slot, then replace the battery compartment cover

Connecting to AcuRite OPTIMUS



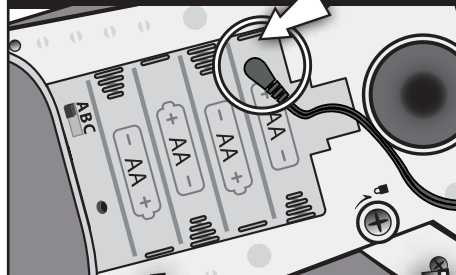
The included IRIS battery compartment adaptor (A) and wire routing clips (B) will **NOT** be utilized for installation with the AcuRite Optimus.

REMOVE BATTERY COMPARTMENT COVER



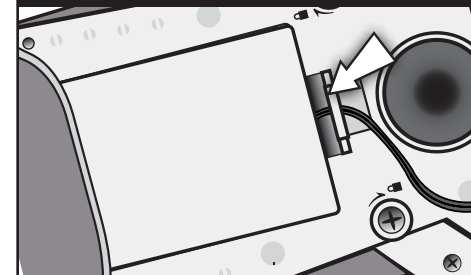
Remove battery compartment cover from the bottom of the AcuRite Optimus outdoor sensor. Remove batteries if currently installed.

INSERT SOLAR POWER PACK ADAPTER PLUG



Plug the power adapter cord into the battery compartment of the sensor.

LOOP CORD AND REPLACE BATTERY COMPARTMENT COVER



Loop the cord through the slot, then replace the battery compartment cover



Troubleshooting

Model 06051M

Solar Battery Pack level indicates low battery	<ul style="list-style-type: none"> • Ensure solar cell is facing south and that there is nothing directly obstructing the solar cell from receiving sunlight. • If ambient temperature is below freezing for an extremely long time, the lithium battery will charge more slowly and may drop to a LOW level for a period of time. If extreme cold conditions persist for many months, you may need to utilize the integrated USB-C charging port and a standard USB-C charging cable and adaptor (not included) to periodically charge up the battery to 100% while the extreme cold conditions continue. 	Battery Operating Outdoor Temperature Range: -40°F to 158°F (-40°C to 70°C) FAST Solar Charging Temperature Range: 32°F to 158°F (0°C to 70°C) 24 HRS SUNLIGHT TO FULLY CHARGE FROM 0% SLOW Solar Charging Temperature Range: -40°F to 32°F (-40°C to 0°C) 60 HRS SUNLIGHT TO FULLY CHARGE FROM 0% Cord Length: 30-ft (9.1m) Power: 1 x 18650 3.7v rechargeable lithium battery (included) TEMPERATURE RANGE NOTE: The power draw from the device is LESS than the solar panel will output to the battery on most days, even with average daylight available. The only time there may be a low power issue is in extended extreme cold (-4 to -40) for many weeks and/or NO charging daylight available for weeks. In these rare cases, you may need to bring the solar charging pack inside and charge the battery via the USB-C port located inside the battery compartment (USB-C charger/cord not included).
Solar Charge Status indicator is BLINKING	<ul style="list-style-type: none"> • Make certain the included rechargeable battery is installed correctly according to "+" and "-" markings in housing. • After many charge cycles and temperature cycles, lithium batteries will lose their ability to accept and maintain an adequate charge. If the battery is installed correctly, but the solar charge status indicator is still blinking, it may be time to replace the # 18650 3.7v rechargeable lithium-ion battery. 	
Solar Charge Status indicator illuminates when I press battery level check button	Occasionally, when the "battery level check button" is pressed, enough battery power is expended to illuminate the battery level indicator circuit and indicator level LED's that the battery level drops below the full charge level, causing the status to change from "full" to "charging". It is normal to see the solar status to illuminate after pressing the "battery level check button".	
Battery level indicator shows adequate battery, but weather station display is not receiving data (no signal bars or low battery shown on display)	<ul style="list-style-type: none"> • If you have an AcuRite ATLAS or OPTIMUS weather station, make certain the solar power adapter plug is fully inserted into the power receptacle inside the battery compartment. Note that the screw holes and the power receptacle input within the battery compartment are similarly sized - so check carefully. • If you have an AcuRite IRIS (5-in-1) weather station, make certain the AC adaptor plug is inserted into the battery compartment adaptor (pg 3., "A") correctly, and that the adaptor is installed correctly into the IRIS battery compartment. • Consult your full weather station manual for guidance and tips on installation and setup of weather station components to ensure best wireless signal transmission and reception. 	

Limited 1-Year Warranty

AcuRite is a business unit and brand of Combex, Inc. (referred to as "Combex," "we," "us," or "our" in this document. Chaney Instrument Company is also a business unit and brand of Combex. For purchases of both AcuRite and Chaney Instrument Company products, Combex provides the benefits and warranty services described below.

We warrant to the original purchaser that all products we manufacture under this warranty are of good material and workmanship and, when properly installed and operated, will be free of defects for a period of one year from the date of purchase (the "One Year Warranty").

Any product which, under normal use and service and after examination by us, fails to meet the One Year Warranty will, at our sole option, be repaired or replaced by us. Although, as explained below, in some cases a refund will be provided. Transportation costs and charges for returned goods shall be paid for by the purchaser. We hereby disclaim all responsibility for such transportation costs and charges. The One Year Warranty does not cover, and we will not repair or replace products which have received normal wear and tear not affecting the functionality of the product, been damaged (including by acts of nature), tampered, abused, improperly installed, or repaired or altered by anyone other than our authorized representatives.

The remedy under the One Year Warranty is limited to repair or replacement of the defective item(s). If we determine that repair or replacement is not feasible, we may, at our option, refund the amount of the original purchase price.

THE ONE YEAR WARRANTY IS NOT TRANSFERABLE AND IS THE SOLE WARRANTY FOR THE PRODUCTS AND IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ALL OTHER WARRANTIES OTHER THAN THE EXPRESS WARRANTY SET FORTH HEREIN ARE HEREBY EXPRESSLY DISCLAIMED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

We expressly disclaim all liability for special, consequential, or incidental damages, whether arising in tort or by contract from any breach of this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

We further disclaim liability from personal injury relating to our products to the extent permitted by law. By acceptance of any of our products, the purchaser assumes all liability for the consequences arising from their use or misuse. No person, firm or corporation is authorized to bind us to any other obligation or liability in connection with the sale of our products.

Furthermore, no person, firm or corporation is authorized to modify or waive the terms of this warranty unless done in writing and signed by a duly authorized agent of ours.

In no case shall our liability for any claim relating to our products, your purchase or your use thereof, exceed the original purchase price paid for the product.

Applicability of Warranty

The One Year Warranty applies only to purchases made in the United States and Canada. For purchases made in a country other than the United States or Canada, please consult the warranties, if any, applicable to the country in which you made your purchase.

As noted, the One Year Warranty applies only to the original purchaser of our products. We cannot and do not offer any return, refund, or warranty services if you buy products used or from resale sites such as eBay or Craigslist.

Governing Law

The One Year Warranty is governed by the laws of the United States and the State of Wisconsin. Any dispute relating to the warranty shall be brought exclusively in the federal or State courts having jurisdiction in Walworth County, Wisconsin; and purchaser consents to jurisdiction within the State of Wisconsin.