

# Bona<sup>®</sup> Power Station Plus

## OPERATING MANUAL



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<b>Electrical Capacity:</b>	7.2 KVA
<b>Working Capacity:</b>	<ul style="list-style-type: none"> <li>• 30 AMPS via the 230-volt output receptacle</li> <li>• 20 AMPS via the twin outlet receptacle (all outlets work simultaneously, see special instructions in "Electrical Requirements &amp; Wiring Instructions")</li> </ul>
<b>Input:</b>	(1) 4-wire, GFI, 230 volt/30 AMP twist-lock
<b>Output:</b>	<ul style="list-style-type: none"> <li>• (1) 3-wire, 230 volt 30 AMP twist-lock</li> <li>• (1) 115 volt 20 AMP duplex, straight leg receptacle</li> </ul>
<b>Pigtail:</b>	230 volts 30 AMP twist-lock with 10-4 cable to connect Bona® Power Station Plus to the power supply
<b>Dimensions:</b>	5-7/8"W x 12-7/8"H x 5"D
<b>Weight:</b>	29 lbs.

We congratulate you on your purchase of the Bona® Power Station Plus, a safe and convenient way to protect your valuable floor sanding equipment from high -or low-voltage power situations. Use it as a power center to centrally connect your installation and floor sanding equipment. Use it to effectively run your floor sanding and vacuuming equipment and adjust the power for your 230V units if your power supply drifts from the desired voltage range.

Carefully read through the entire user manual before you begin working with the machine. This machine is intended for professional use only.

## Material Specification

Standard (included on delivery)

Key	Article	Article Number
A	Bona® Power Station Plus	AM0002417
B	10' 10-4 cable	AS1200145 (Order per linear foot)
C	230 volts 30 AMP twist-lock	AS1200114
D	Operating Manual	

# Electrical Requirements & Wiring Instructions

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**DANGER**

**DANGER** means: You or other staff can suffer a serious injury or death if the instructions marked with *DANGER* on this machine or in these user instructions are ignored or not followed. Read the entire user manual before you use the machine.

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**DANGER**

**DANGER:** Failure to properly ground the Bona® Power Station Plus can result in serious injury and death.

The Bona® Power Station Plus is a buck/boost transformer. It provides the operator of a 220V wood floor sanding machine the opportunity to buck down or boost up the voltage as needed to provide the optimum voltage required to operate the motor on the sanding machine properly. Bona sanding equipment requires 230V service as the optimum power feed.

The Bona Power Station Plus also provides a 110V duplex outlet located on the unit's front face as a convenience to the end-user to operate a small hand tool, buffer, or vacuum product. The Bona Power Station Plus is a four-wire system providing two 110V hot leads, a neutral return wire, and a ground wire. This four-wire arrangement allows for the inclusion of the 110V duplex outlet, which permits use simultaneously with the 220V outlet on the transformer. When properly connected to a four-wire 220V/230V service such as a Residential dryer or stove outlet, the Bona Power Station Plus will operate as intended.

However, when the Bona Power Station Plus is connected to an existing three-pronged dryer or stove outlet by a three-wire pigtail setup (two 110V hot legs and a ground wire), the 110V duplex outlet on the Bona Power Station Plus will be rendered useless. The 220V motor will run properly in this arrangement and will be properly grounded.

For the 110V duplex to work and be properly grounded, there must be a **FOURTH** wire (the white return wire) to complete the circuit. Concerning the above-mentioned three-wire pigtail, a four-pronged female connector can be attached to the end of the three-wire cable, which can be connected to the four-pronged male connector coming from the four-wire line on the input side of the Bona Power Station Plus. Because this three-wire pigtail has no "return white wire," the 110V duplex will be rendered useless. If the product user wishes to activate the 110V duplex, the user must revert to a four-wire arrangement.

A certified electrician must install a four-wire drop with a four-pronged female NEMA connector to connect to the four-wire cable and male connector coming from the Bona Power Station Plus. Do not attempt this if you are not a certified electrician.

Three-pronged dryer and stove outlets were the standard service outlets for residential construction until around 1998 when NEMA standards changed to the four-wire system. When using the Bona Power Station Plus, employ a certified electrician to make any additional electrical connections to any job site electrical service that will not allow the sanding equipment operator to connect the Bona Power Station Plus following the product's intended use.

If the sanding equipment operator chooses to have a certified electrician prepare an electrical service connection using a three-wire, three-pronged plug, it must be understood that the 110V convenience duplex will not be operable.

**NEVER** connect the neutral and ground wires in a four-wire cable to accommodate a three-pronged plug. This incorrect connection can result in electrical shock due to improper grounding.

The Bona® Power Station Plus is the safe, inexpensive and convenient way to protect your valuable floor sanding equipment from high or low-voltage power situations. Use it as a power center to centrally connect your installation and floor sanding equipment. Use it to effectively run your floor sanding and vacuuming equipment and adjust the power for your 230V units if your power supply drifts from the desired voltage range.

You have the choice of using the Bona Power Station Plus as a static power center for your 230V and 115V equipment or as a buck/booster for the 230V equipment when the circumstances dictate. Read the LED meter occasionally to see if the voltage feed from your primary power source has changed enough to warrant a boost or decrease in power. The 115-volt (non-boosted) outlet offers a convenient 20 Amp power source protected internally via a circuit breaker with an external reset button (This circuit breaker offers equipment protection from power surges).

## Maintenance, Service & Repairs

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### Maintenance

To keep the machine in a safe and functioning condition, perform maintenance on the machine regularly. Always disconnect the power cable to the machine before cleaning, changing tools, performing maintenance, or replacing worn parts.

### Service

The Bona® Power Station Plus is a high-quality machine and is tested by authorized test staff at the factory before delivery. However, electrical and mechanical parts wear down and age during long-term use. Only Bona's original parts may be used because the machine is considered unique; otherwise, safety functions can become impaired. When you contact Bona or staff approved by Bona in the event of a fault or to order spare parts, always specify the type and serial number of your machine. This information is located on the data plate of the machine. The machine may never be cleaned using a high-pressure washer or hose.

### Spare parts and exploded views

To locate a list of spare parts and exploded views for the Bona Power Station Plus and other machines in our product range, visit <http://spareparts.bona.com/>

During the factory warranty period, repairs may only be carried out by Bona or staff approved by Bona. Other repairs (after the warranty period) of mechanical or electrical parts on the machine may only be carried out by Bona or staff approved by Bona who has experience and knowledge concerning safety regulations.

# Warranty

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There is a 24 month factory warranty (from the date of invoice) against material and manufacturing faults. In the event of a warranty claim, the machine or agreed upon part must be returned to Bona or staff approved by Bona with paid freight for warranty testing and for potential repair or replacement under warranty. During the factory warranty period, repairs may only be carried out by Bona or staff approved by Bona. We do not undertake any other form of compensation or liability to damages.

## THE WARRANTY DOES NOT COVER

- Consumable materials such as wheels, electrical cables, abrasives, lamps, etc.
- Indirect damage, damage and errors that occur due to external damage, accidents, and/or repairs performed outside of our knowledge and approval, or damages for another reason outside of our control.
- Transport damage or transport costs. In the event of transport damage it is up to the receiver to contact the relevant transport company for compensation.
- Cases of incorrect use, overloading, carelessness or poor maintenance
- The use of parts produced by another company outside of our control.
- Electrical components, if the voltage variations are beyond those set out in the technical specification.
- If payment for the machine is not made according to the agreement.



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## Bringing out the best in hardwood floors.

At Bona, we are committed to the lifetime of hardwood floors. We are devoted to providing solutions that keep a floor perfect during its entire life. Through our long commitment and constant search for innovation we offer lasting, sustainable results for professionals and floor owners.

Bona is a family-owned company founded in 1919. With its headquarters in Sweden, Bona is now present in more than 90 countries all over the world through subsidiaries and distributors. We provide products for the installation, maintenance and renovation of hardwood floors throughout their lifetime. Today we have solutions for professionals, homeowners and prefinished manufacturers.

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