

Autobonder™ 2111

110-043 / 110-044



HERNON®
MANUFACTURING, INC.
High Performance Adhesives, Sealants and
Precision Processing Solutions

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September 2015

About This Manual

Thank you for selecting Hernon's Autosealer 2650 for your application. The Autosealer 2650 was developed with your needs in mind, and has been calibrated and tested to ensure optimal performance and long life.

To ensure safe and trouble-free operation, please review the procedures and warnings contained in this manual before setting up or operating your Autosealer 2650. While safety is paramount, proper handling and operation of your Autosealer 2650 will also serve to produce quality product yield.

If you have any problems or concerns, please contact Hernon Technical Support at (407) 322-4000. Trained Hernon professionals are standing by to serve you.

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Unpacking and Inspection

Upon receipt of the Autobonder 2111, carefully remove the contents from the boxes and check for damage. Hernon is not responsible for damage from shipping – all claims for shipping damage should be made with carrier.

Check all boxes for contents and document any serial numbers for further reference. You may wish to retain original shipping cartons in case you need to repackage any item for return.

If you observe or experience any problem with your equipment, notify Hernon Customer Support, your authorized distributor, or your Hernon representative immediately.

NOTE: REPORT ANY SHORTAGE TO HERNON CUSTOMER SERVICE

Phone: (407) 322-4000 Fax: (407) 321-9700 Email: sales@hernon.com

Before continuing with unpacking and installation, please read the following chapters of this manual for safety recommendations and installation, running, and troubleshooting instructions.



WARNING! Always observe safety requirements!



CAUTION! Risk of Electrical Shock when enclosure is removed!

Safety

For safe and successful operation of the Autobonder 2111, read these instructions completely. If the instructions are not observed, the manufacturer can assume no responsibility. Be sure to retain this manual for future reference.

If chemical products are not properly handled, damage to health can result.

It is very important to not exceed the pressure specifications of the pressure reservoir. Exceeding these pressure specifications may result in the rupture of the pressure reservoir resulting in possible personal injury.

- Observe general safety regulations for the handling of chemicals.
- Observe manufacturer's instructions.
- When working with pressurized air, wear protective glasses.

While under warranty, the Autobonder 2111 may be repaired only by an authorized Hernon service representative. Request a material safety data sheet for the HERNON® product used.

General

The Autobonder 2111 is a control unit for the semi-automatic dispensing of liquid via a Hernon Sureshot® valve, and a pressurized reservoir. It utilizes pneumatic pressure and an electronic timer to accurately control dispense volume, and is activated with the included foot pedal switch. **Autobonder 2111 does not include a Sureshot valve and pressurized reservoir.**

Features

- Continuous or Timed Modes.
- Optional: 0-30psi or 0-100psi versions for compatibility of materials with different viscosities.
- Optional: 120V or 230V

Part Number Guide

Autobonder 2111:	Part Number:
120V, 60Hz	110-043
230V, 50Hz	110-044

Specifications

System Part Number	110-043/044 (see chart above)
Power Requirements	120V, 60 Hz OR 230V, 50 Hz (see chart above)
Internal Voltage	12V, 500mA
Dimensions (approx.)	7 ¾" x 7" x 3"
System Warranty	1 year from purchase
Air	Maximum 100psi (Dry Filtered Air)
Weight (approx.)	4lbs

System Includes:

Component:	Part Number:
Autobonder 2111 Controller	-
Power Supply (120V/230V)	102-038 / 102-039

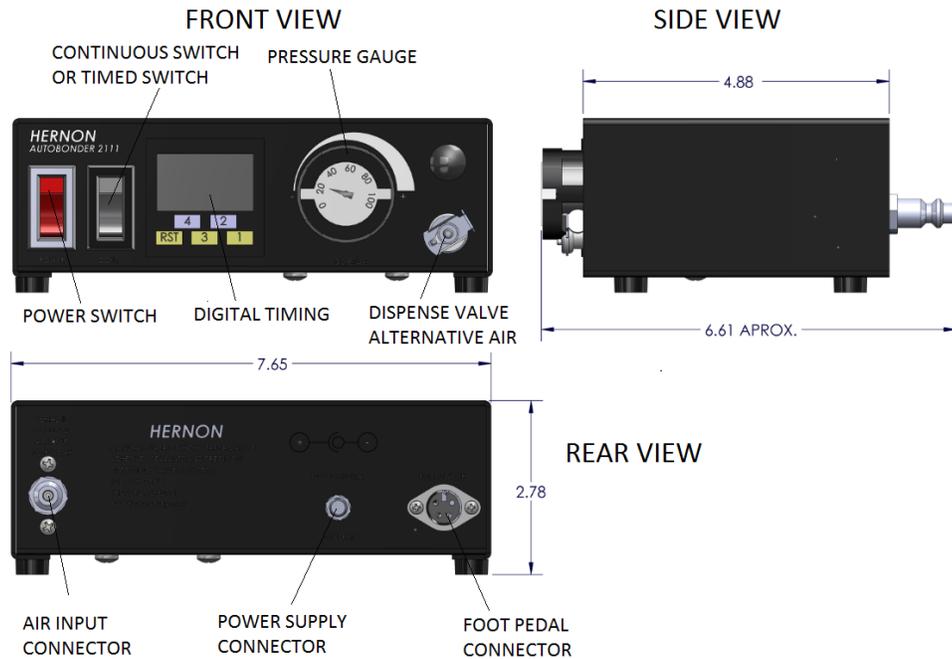


Figure 1- Autobonder 2111 Controller

Optional Components

Below is a list of some of the recommended Heron components that will work with the Autobonder 2111. For a full chart, check the reference guide on page 12.

Component:	Part Number(s):
R125 Reservoir	110-100
Sureshot 2200	110-000/001/002/003
Sureshot 4000	110-005/006/007/067
Dispense Tubing 5ft. (white Teflon) ¼" O.D. x 0.15 wall	101-033
Pneumatic Tubing 5ft (cut to desired length) ¼" O.D. Male Quick-Disconnect	106-129
Foot Switch	110-009

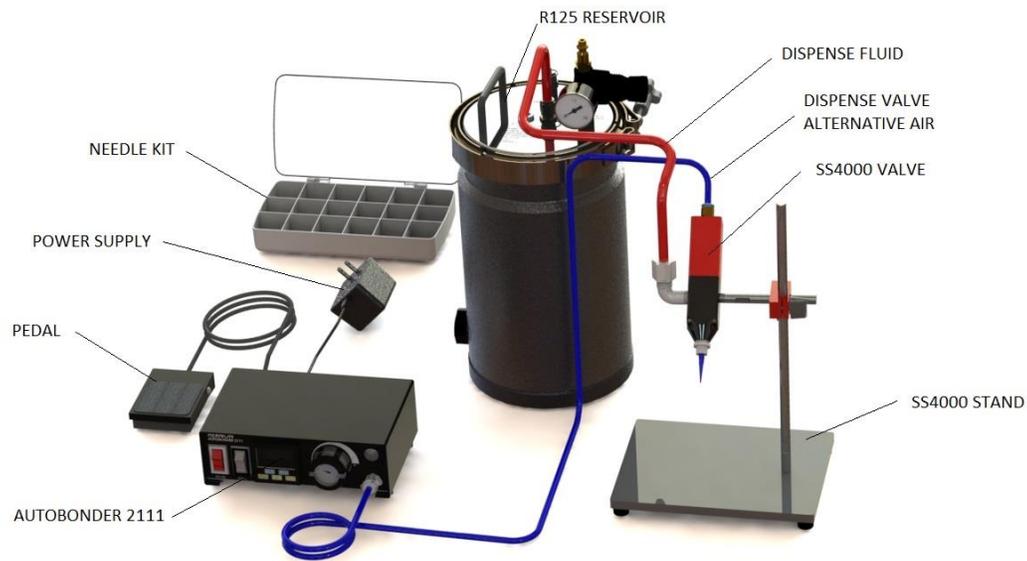


Figure 2- Autobonder 2111, shown with a Sureshot 4000 System configuration

Assembly and Set-Up Procedure

The following procedure describes how to Set-Up the Autobonder 2111 with optional Sureshot valve and Reservoir. Refer to figures 3 and 4.

1. Connect SureShot valve air inputs, using pneumatic tubing: one end to the Dispense Output coupler on the front panel of the Autobonder 2111, the other end to the air input on the Sureshot. Consult the instructions of your Sureshot valve.
2. Connect white Teflon material supply hose to the supply fitting on Sureshot dispensing valve assembly. **Refer to R125 guidelines for proper setup of material supply.**
3. Connect dry filtered shop air to the Air Input connector on the back face of the Autobonder 2111.
4. Connect dry filtered shop air to coupler on R125 Reservoir.
5. Insert Power Cord into rear face of Autobonder™ 2111 to the connector labeled "POWER IN"
6. Connect the foot switch to the back of the Autobonder 2111 – the connector labeled "FOOT SWITCH".
7. Twist-lock desired Dispense Tip onto Sureshot valve.
8. After steps 1-7 have been completed, power the Autobonder 2111 ON.



Figure 3- Front face of Autobonder 2111



Figure 4- Rear face of Autobonder 2111

Operator Controls

Modes

Continuous Mode

If the application requires the dispensing of variable amounts of material that must be controlled by the operator, use the continuous operation mode. Set the Mode Toggle Switch to the “CONT.” position. This will override the timer circuitry and give complete control of the dispensing to the operator through the use of the Foot Switch. The Autobonder 2111 will dispense material while the foot switch is depressed and discontinue dispensing when foot switch is released.

Timed Mode

The Autobonder 2111 is equipped with a digital timer for timed dispensing operations. To set into Timer Mode, set the Mode Toggle Switch to Timer Mode. Upon activation of the foot switch the solenoid of the controller turns on the dispense air which opens the dispensing valve and begins the flow of material from the needle tip for the set interval of time. After elapse of the pre-set time, the solenoid of the controller shuts off the dispense air which closes the dispensing valve and ends the flow of the material.

Time Programming

- Timer range is: 00.01 to 99.99 seconds.
- Use the 1, 2, 3, 4, and RST keys to adjust the time. 1 sets hundredths of seconds, 2 sets tenths of seconds, 3 sets single seconds, and 4 sets ten-second increments. Once the desired interval of time is acquired press the RST button to set it into the machine. Refer to Figure 5.



Figure 5- Timer

Pressure Regulator

The Pressure Regulator allows the user to adjust the air pressure that is actuating the valve within the Sureshot. Higher pressures will dispense more material, for a given time. To adjust air pressure, pull the dispense control knob outward and turn counter-clockwise until the needle on the gauge reads below the new desired pressure setting. Then turn the knob clockwise to bring the needle up to the pressure setting desired. Press knob inward to lock its position.

Dispensing

Follow the procedure as outlined below:

1. Ensure all Assembly and Set-Up procedures have been completed.
2. Turn the "POWER" rocker switch to the "ON" position and the "CONT." rocker switch to the desired position.
3. Turn the "DISPENSE" regulator to desired pressure.
4. Adjust the pressure regulator on the R125 to desired PSI.
5. Depress the foot switch until a material flow is established. If no material comes out of the needle, increase the air pressure in 3-4 PSI increments until a flow is established. Adjust as required.
6. Turn the "CONT." rocker switch to Timed Mode, if applicable.
 - a. Depress the foot switch to dispense "dots". Increase the time as desired for larger "dots"

NOTE: For highest repeatability, adjust the time before adjusting the air pressure.

Validation

Prior to production, Heron advises customers to conduct testing to determine the desired dispense levels. When switching between materials of different viscosities, air pressure will have to be adjusted, and a different dispense tip will be required. The 0-30psi Autobonder 2111 (P/N: 110-035) will be limited in its ability to deal with materials of higher viscosity.

Maintenance

The Autobonder 2111 is designed with minimum maintenance required. In the event that the controller does not function properly, contact Hernon.

Troubleshooting

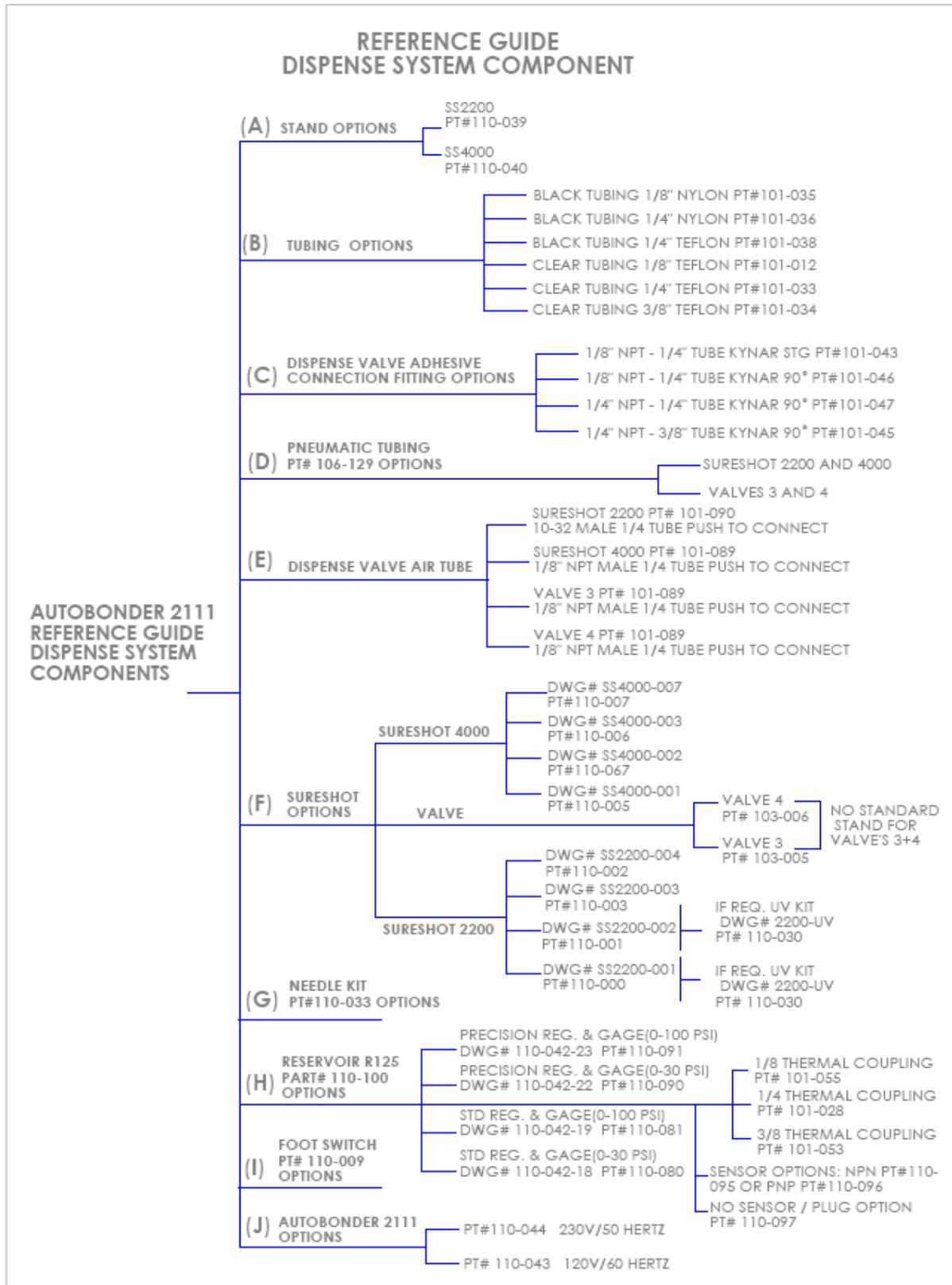
Q: Autobonder 2111 Controller does not power ON.

A: Ensure that power cord is fully inserted into input on the back face of the controller.

Q: Pressure regulator knob will not turn.

A: The knob has a locking feature, and needs to be pulled outward to be adjusted. Push the knob back in to lock

Reference Guide



Notes