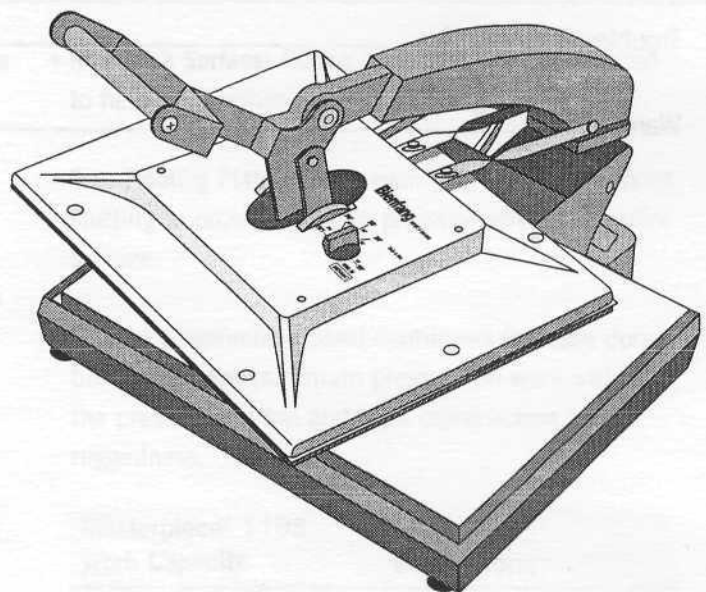


## OWNERS MANUAL

# Masterpiece® 110S Mechanical Dry Mounting/Laminating Press Operation and Service



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# IMPORTANT SAFEGUARDS

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**Please read the entire manual and fully understand the proper operating procedures before proceeding to use the press.**

1. Place the dry mounting/laminating press on a sturdy, flat, level table in a clean work area. The press should be accessible from three sides. The press should not be located in the direct path of air conditioning vents or room-cooling fans.
2. Correct pressure adjustment is essential to the safe and proper operation of the press and should be checked prior to every use.
3. Grasp the center of the handle firmly when opening and closing the press. Keep body, head and hands clear of all moving parts and away from the press opening at all times.
4. Objects such as knives, tools, rulers, paper clips and markers should be kept out of the press and away from the press opening at all times.
5. Proper maintenance of the press is easy and essential. The press platen and sponge pad should be kept clean and free of adhesive residue, and all functions should be checked periodically.
6. Turn the power switch off and keep in the closed (but not locked) position when not in use. Do not leave the press on overnight, and unplug the power cord while cleaning or replacing parts.

Contact an authorized Bienfang® dealer or Bienfang Technical Service (1-888-240-6021) in the event the press needs service or parts not covered in this Owners Manual.

## PRESS FEATURES AND SPECIFICATIONS

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- **Fast Operation:** Superior heating system quickly brings the platen to uniform temperature ensuring 100% bonding whether dry mounting, laminating or texturizing.
- **Extended Temperature Range:** Thermostat control adjusts from 150°-350°F (68-177°C) to cover a wide range of operating temperatures.
- **Swing-Away Platen:** Makes machine easy to load and unload because the platen swings out of the way.
- <sup>1</sup> **Oversize Capacity:** Design allows processing of materials larger than the press platen by sliding the work side to side or out of the front or back of the press.
- <sup>1</sup> **Easy Pressure Adjustment:** Pressure adjusts and locks in seconds to accept materials up to 1" (25mm) thick.
- **Non-Stick Surface:** Platen surface is specially coated to help keep adhesives from sticking.
- **Free-Floating Platen:** Seats evenly on the work without shifting to provide uniform pressure across the entire surface.
- **Rugged Construction:** Steel cantilevers increase durability and allow maximum pressure on work within the press. Metal top and base construction adds ruggedness.

### Masterpiece® 110S

#### Work Capacity

#### Dimensions

#### One piece:

12" X 15"  
30.5cm x 38.1cm

#### Sections:

: 24" (61cm) by any length

**Width:** 16" (40.6cm)

**Depth:** 19" (48.3cm)

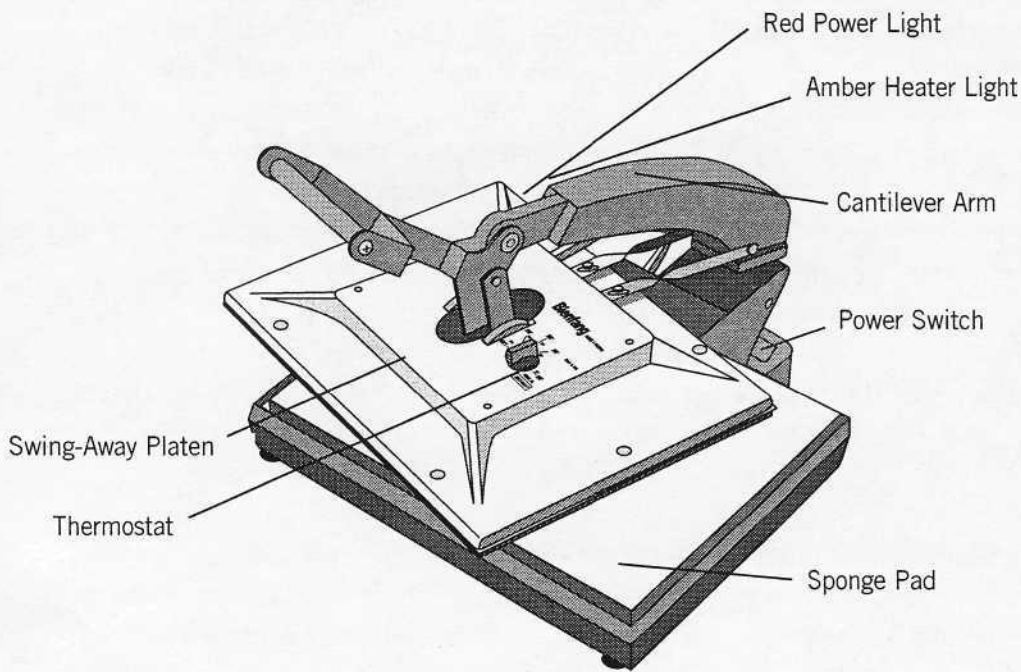
**Height:** 9" (22.9cm)

**Open:** 17" (43cm)

**Net Weight:** 38 lbs./17 kg

**Power Consumption:**  
850 Watts

# IDENTIFICATION OF CONTROLS



Please read the entire manual and fully understand the proper operating procedures before proceeding to use the press.

**Power Switch:** Turns main power on/off.

**Red Power Light:** Glows to indicate power switch on.

**Amber Heater Light:** Glows to indicate heater is on, shuts off when temperature reaches thermostat setting.

**Thermometer:** Indicates temperature of the press platen.

**Temperature Control:** Panel controls platen temperature. Set at 200°F (95°C) with the power switch on, the platen temperature should rise to 200°F (95°C) and cycle within +/- 10°F of that setting.

## INSTALLATION AND PREPARATION

Your press is fully assembled and factory adjusted for immediate use. Install as follows:

1. Position the press squarely on a sturdy, flat, level table in a clean work area. Make certain that all four feet are resting on the surface. Access to the press from three sides is recommended. Making the adjacent table tops level with the sponge pad will facilitate handling over-size substrates.
2. The press may be secured to the table, if desired, to prevent movement during heavy or constant usage applications. Screw two #12 wood screws through the holes provided in the base of the press into the table surface.
3. Locate and identify all function controls.
4. Turn power switch off and plug the power cord into an outlet that is rated to supply the electrical current required for the press. See the press Temperature Control Panel for specific information regarding the voltage required for proper electrical supply.
5. The press should be cleaned thoroughly before initial use. Bienfang® UnStik™ adhesive releasing solvent or Bienfang® Platen Cleaner is suggested to fully clean the platen. Normal cleaning solutions can be used on the painted metal components. Clean only when press is cool and in a well-ventilated area.
6. Prepare a Release Paper cover sheet, Release Folder or Release Board before using the press. Refer to the instructions provided with Bienfang® Easy Peel Release Paper and the adhesive, laminate or heat-seal material being used. The press is now ready for use. Check operation by closing (but not locking) the press and turning the power switch on. The power and heater lights should illuminate and the press should begin to warm up (complete warm-up takes 15 minutes).

### U.S.

Compress 110S

850 Watts

(Recommendation: Verify proper amperage before powering up)

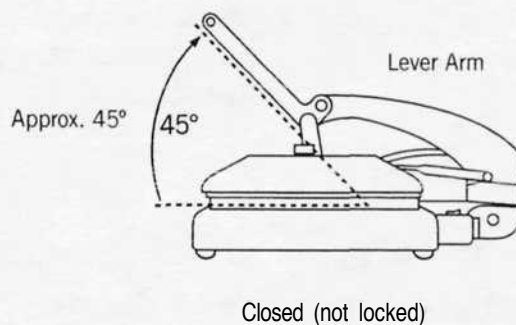
# PROCEDURES FOR USE

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1. With the press in the closed (but not locked) position, turn the power switch ON. The red power light and amber heater light will illuminate.
2. Normal operating temperatures of the press are 170°-225°F (77°-107°C) for dry mounting/laminating or 300°-350°F for heat-seal packaging materials. Refer to the specific instructions provided with adhesive or laminate being used and set the thermostat to stabilize the press at the Recommended Temperature setting.
3. The press will reach the selected operating temperature and be ready for use in approximately 15 minutes. The amber heater light will remain on until the operating temperature is reached. Enough time should be allowed for it to go off and on two or three times before initial use to be certain that the platen temperature has stabilized.
4. Pre-dry the artwork and substrate (if needed) and assemble the materials to be processed. Refer to the specific instructions for the adhesive or laminate being used.
5. Check the pressure adjustment of the press by placing the assembled materials inside and closing (but not locking) the press. The lever arms should be at a 45° angle. Adjust the pressure, if needed, and then close and lock the press.

NOTE: See following section on Pressure Adjustment Procedures for proper pressure adjusting directions.

**\*Heat-Seal Packaging:** Check with the packaging supplied to determine if the sponge pad should be removed before adjusting the pressure for the thickness of the packaging die.



6. Leave the assembly in the press long enough to heat the materials to at least the Minimum Temperature indicated on the instructions provided with the adhesive or laminate being used (refer to the Time Chart in the instructions with the adhesive or laminate being used).
7. Open the press, remove the assembled materials and cool them under a Bienfang Weight to reduce bowing and improve the bond strength.

\*Although the temperature range will reach 350° and can do Heat-Seal packaging, it is not recommended for long-term usage in this capacity. Running at high temperatures for extended periods of time may cause thermostat or heater failure.

# PROCESSING OVERSIZE MATERIALS

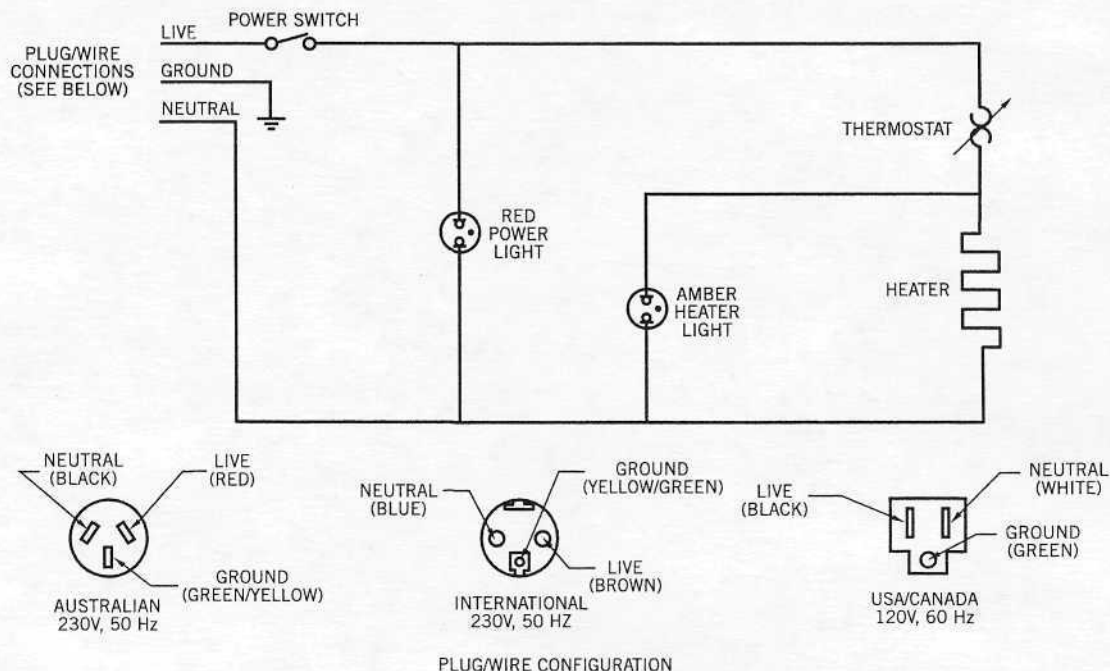
**Materials substantially larger than the press platen can often be processed in multiple sections using the following precautions:**

- Check that the pressure adjustment has been made to accommodate the thickness of materials.
- In the case of impressionable substrates (i.e. foam board) a Release Board or other buffer sheet slightly larger than the press platen may be placed over the materials; this helps prevent the possibility of platen lines appearing on the materials.
- Materials extending out of the press should be supported so that they do not bend or flex.
- When processing in sections, it is recommended to start in the center of the work and then work out towards the edges.

## Pre-drying Materials

In humid, moist or damp conditions, certain porous materials absorb water and need to be pre-dried. This removes the excess moisture that would otherwise possibly interfere with good bonding or affect the finished appearance of the results. To pre-dry, place the materials inside a folder of smooth, porous paper, or between 2 pieces of Kraft paper and process for a short time.

## WIRING DIAGRAM





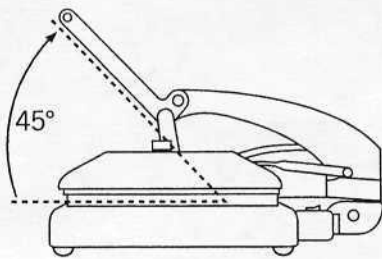
# PRESSURE ADJUSTMENT PROCEDURES

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Use the following procedure to check and set the pressure adjustment of the press. Two Allen wrenches (1/4" and 5/32") are needed and a 45° right triangle is helpful to check the adjustment. If a 45° right triangle is not available, cut a square piece of scrap board (approximately 18" x 18" [46cm]). Score the board from corner to corner and fold on the score. The result is a 45° right triangle.

Materials up to 1" (25mm) thick can be handled if the following pressure adjustment procedures are used:

1. Check the pressure adjustment of the press by placing the assembled materials inside and closing (but not locking) the press. The lever arms should be at a 45° angle to the top of the table as shown. If not, proceed to adjust the pressure.



**Heat-Seal Packaging:** Pressure adjustment should be made with the packaging die in the press. Check with the packaging supplier to determine whether or not the sponge pad should be utilized in the press.

2. Close and lock the press, leaving the materials to be processed inside (or materials of equal thickness). Position the press on its side. (Large screw is adjusting bolt, small screw is pressure locking bolt)
3. Loosen, but do not remove, the pressure-locking bolt using a 1/4" Allen wrench.
4. Return the press to the upright and closed (but not locked) position and slide the press so the adjustment bolt extends over the edge of the workbench.

5. Turn the pressure adjustment bolt (using a 5/32" Allen wrench) clockwise to raise the arm and increase pressure, or counter-clockwise to lower the arm and decrease pressure. Make sure the bolt is adjusted so the arm is at a 45° angle with the materials to be processed in the press.
6. Return the press to the locked position, place on its side and lightly tighten the pressure locking bolt using the 1/4" Allen wrench. Place the press in the upright position.

## Alternative Pressure Adjustment Method:

A shim can be made to simplify adjustment between two different thickness substrates that are commonly used (example: 3/16" ((5mm)) foam board and 100 pt. card stock).

1. Set the pressure adjustment for the thicker of the two substrates (3/16" ((5mm)) foam board), using the preceding procedure.
2. Find a firm board that is equal to the difference in thickness between the two substrates (approximately 1/8" ((3mm)) in this example). Cut this board (to be used as a shim) the size of the pressure board beneath the sponge pad in the press.
3. Slide the shim under the pressure board when processing materials the thickness of the thinner board (100 pt. card stock). Remove the shim when using the thicker of the two substrates (the 3/16" ((5mm)) foam board).

# PERIODIC MAINTENANCE

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**The Bienfang® Masterpiece® 110S Mechanical Press has been specifically engineered to require a minimum level of maintenance. The following guidelines were designed to keep the press in prime operating condition throughout its lifetime.**

1. Clean the platen regularly. Bienfang® UnStik™ adhesive-releasing solvent or Bienfang Platen Cleaner should be used to dissolve and remove difficult deposits as needed. Do not use abrasive materials such as steel wool or gritty cleaners.
2. Check the sponge pad periodically for cleanliness and uniform resiliency, if the pad shows any areas of soft or "dead" spots it should be replaced. Uniform pressure is essential for quality results when mounting or laminating. Replace the sponge pad as necessary when soiled or uneven.
3. Check the platen temperature periodically using Temperature Indicator Strip to verify calibration of the thermostat and thermometer settings. To recalibrate or replace call an authorized Bienfang dealer or Bienfang Technical Services.
4. Lubricate all pivot points twice a year with a Teflon® or silicone dry lubricating spray. Oil or graphite lubricants are not recommended.

5. Inspect the power cord for breaks and cuts. Make sure there are no severe bends or crimps in the cord. The cord should not be pinched between the table, press or wall. Replace as necessary.

6. Check the overall press occasionally for levelness, loose screws, or damaged components. Adjust, tighten or fix as necessary.

*The information contained herein is based upon our research and believed to be accurate, but the accuracy and completeness of our recommendations is not guaranteed. The user shall determine the suitability of the product for their intended use, before using the product, and the user assumes all risk and liability whatsoever in connection with the use of the product. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or inability to use the product. The following is made in lieu of all warranties, express or implied. Seller's and manufacturer's only obligation shall be to repair, replace or credit such quantity of the product proved to be defective.*



# REPLACEMENT PARTS

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Kit (Thermostat Kit)	6299053
Thermostat Knob Kit	6299054
Power Switch	003005
Electrical Kit 115V	6299055
Electrical Kit 230V	6299056
Power Cord 115V	6202024
Power Cord 2340V International	6202025
Power Cord 2340V Australia	6202026
Heater Kit 115V	6299057
Heater Kit 230V	6299058
Platen Kit	6299059
Sponge Pad	100326
Cantilever Arm Kit	6299064
FootKit	6299060
Toggle Plate/Bolt Kit	6299063
Handle Kit	6299062
Pressure Adj. Kit	6299065
Screw Kit	6299061

Kits listed contain the components and instructions necessary for normal replacement of the effected item. This precludes the necessity of identifying and ordering individual parts and helps ensure all the necessary parts are on hand.

# TROUBLESHOOTING GUIDE

SYMPTOM	PROBABLE CAUSE	ACTION
No heat, all lights off	Not plugged in Power supply off Power switch off Power switch inoperative Power cord inoperative	Check power cord Check circuit breaker in building Check switch Replace switch Replace cord
No heat, power light on, Heater light off	Thermostat inoperative Heater inoperative	Replace Thermostat/Call Technical Service Replace Thermostat/Call Technical Service
No heat, power light on, heater light on	Heater inoperative	Replace Thermostat/Call Technical light
Pits in work	Cleanliness	Clean platen
Bumps under work	Cleanliness	Remove dust, debris from between materials
Bubbles, non-adhesion	Improper adhesive Inadequate time Low pressure Low/uneven pressure  Low/high temperature High moisture content Substrate quality	Check specifications Reprocess longer See Pressure Adjustment Procedure Check sponge pad See Pressure Adjustment Procedure Check specifications Pre-dry materials or reprocess longer Check specifications
Lines from edge of press	High pressure	See Pressure Adjustment Procedure and/or use Release Board or buffer sheet
Uncontrolled heat (overheating)	Thermostat inoperative Wiring incorrect	Replace Thermostat Check wiring diagram

# ONE YEAR WARRANTY

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Hunt Corporation warrants to the original consumer purchaser that each new Bienfang® equipment product which proves defective in materials or workmanship within the applicable warranty period will be repaired or, at our option, replaced without charge upon its return, postpaid, as outlined below. The applicable warranty shall be one year from date of purchase. "Original consumer purchaser" means the person who first purchased the product covered by this warranty other than for purposes of resale.

Hunt's liability for breach of any warranty express or implied shall be limited to the repair or replacement at Hunt's option, of the defective item. Hunt shall not be liable for damages, including but not limited to incidental or consequential damages, arising out of or in connection with the use or performance of any Bienfang product.

To get performance under this warranty, contact Bienfang® Technical Support (1-888-240-6021) for assistance or to obtain a Return Authorization. If it is to be returned, pack the product securely to prevent damage in transit, and send the product postpaid or freight prepaid, with a description of the defect or malfunction and proof of the date of purchase to Hunt, Attn: RA Number. Hunt is not responsible for damages from mishandling and abuse in transit, in which case a claim should be filed with the carrier.

This warranty extends to and is enforceable only by the original consumer purchaser, and only for the period (during applicable term) during which the product remains in the possession of the original consumer purchaser.

Warranty Department  
Hunt Corporation  
2301 Speedball Road  
Statesville, NC 28677  
Phone: 888-240-6021





**HUNT**

Hunt Corporation  
Customer Service  
P.O.Box 5819  
Statesville, NC 28687-5819                      Canada,  
For Orders:  
Phone: 800-USE-HUNT  
Phone: 800-873-4868  
Phone: 704-872-9511

Hunt Corporation Canada  
690 Gana Court  
Mississauga, Ontario  
L5S 1P2  
Phone: 905-564-7717  
Fax: 905-564-7079

**For Quotations or Technical Assistance.**

For Questions or Technical Assistance: Phone: 888-240-6021

Fax:704-871-8671

Hrs: 8:00 a.m.-5:00 p.m. (EST)

www.hunt-corp.com  
www.forframersonly.com

2002 Hunt Corporation  
4/62-02  
(11/02)

# REPLACEMENT PARTS

Elmer's Products, Inc. is providing a list of parts for the Bienfang Mechanical Presses and Bienfang\* Vacuum Presses that can be purchased at your local hardware store. In many cases, purchasing these parts at your local hardware store will be more economical than purchasing through Elmer's Products, Inc.

Please call Technical Service at 1-888-240-6021 to determine which parts you need for any equipment related problems.

ITEM#	PART DESCRIPTION
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<b>2100-BIENFANG DRUG PRESS 100</b>	
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004001	PPHS 6 - 32 X 3/8", TYPE F
006008	PPHS 10-32X5/8"
007002	HHFS 3/8-16" X 1-1/2"
011005	WASHER-.383 ID X 9/16" OD
011008	WASHER-.515 ID X 3/4" OD
012011	3/8" SPLIT LOCK WASHER
018001	BLUE BUTT CONNECTOR
024013	WIRE - 14 GA TGGT 600V TAN
1004022	PPHS 10-32X1-1/2"
1601052	7/16" - 14 JAM NUT
H1010W	1/2" SPLIT LOCK WASHER

<b>1410-BIENFANG 500T-X MECHANICAL PRESS</b>	
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004001	PPHS 6 - 32 X 3/8", TYPE F
006008	PPHS 10-32X5/8"
011005	WASHER-.383 ID X 9/16" OD
0110013	WASHER-.632 ID X .060 THICK
011014	WASHER-.755 ID X .060 THICK
024013	WIRE - 14 GA TGGT 600V TAN
1005004	PPHS 8 - 32 X 3/4" TYPE F
1238001	BLUE INSULATED FLAG TERM, 16-14

<b>1407-BIENFANG 210M-X MECHANICAL PRESS</b>	
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004001	PPHS 6 - 32 X 3/8", TYPE F
0060058	PPHS 10 - 32 X 5/8"
011005	WASHER-.383 ID X 9/16" OD
011008	WASHER-.515 ID X 3/4" OD
012011	3/8" SPLIT LOCK WASHER
024013	WIRE-14 GA TGGT 600V TAN
029034	SHSS 10-24X1/2"
1004022	PPHS 10-32 X 1-1/2"
1601052	7/16" - 14 JAM NUT
H1010W	1/2" SPLIT LOCK WASHER

ITEM#	PART DESCRIPTION
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<b>1403-BIENFANG 210M MECHANICAL PRESS</b>	
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004001	PPHS 6 - 32 X 3/8", TYPE F
006008	PPHS 10-32X5/8"
011005	WASHER-.383 ID X 9/16" OD
011008	WASHER-.515 ID X 3/4" OD
012011	3/8" SPLIT LOCK WASHER
018001	BLUE BUTT CONNECTOR
024013	WIRE - 14 GA TGGT 600V TAN
029034	SHSS 10-24X1/2"
1004022	PPHS 10-32 1-1/2"
1601052	7/16" - 14 JAM NUT
H1010W	1/2" SPLIT LOCK WASHER

<b>1400-BIENFANG® 160M MECHANICAL PRESS</b>	
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004001	PPHS 6 - 32 X 3/8", TYPE F
006008	PPHS 10-32X5/8"
007002	HHFS 3/8-16" X 1-1/2"
011005	WASHER-.383 ID X 9/16" OD
011008	WASHER-.515 ID X 3/4" OD
012011	3/8" SPLIT LOCK WASHER
018001	BLUE BUTT CONNECTOR
018014	16-14 PIGGYBACK TERMINAL
024013	WIRE - 14 GA TGGT 600V TAN
029034	SHSS 10-24X1/2"
100402	PPHS 10 - 32 1-1/2"
1601052	7/16" - 14 JAM NUT
H1010W	1/2" SPLIT LOCK WASHER

# REPLACEMENT PARTS

## ITEM# PART DESCRIPTION

### 168-BIENFANG<sup>®</sup> 110S MECHANICAL PRESS

004001	PPHS 6 - 32 X 3/8", TYPE F
005006	HHS 1/4-14" X 1/2"
014006	3/8" RETAINING RING
018001	BLUE BUTT CONNECTOR
018014	16-14 PIGGYBACK TERMINAL
024013	WIRE - 14 GA TGGT 600V TAN
029046	SHCS 10-24" X 1/2"
031002	FHS 10-32" X 1-1/8"

### 2170-BIENFANG 5298H VACUUM PRESS

004001	PPHS 6 - 32 X 3/8", TYPE F
012011	3/8" SPLIT LOCK WASHER
012015	1/4" SPLIT LOCK WASHER
040030	HINGE SCREWS 1/4-20 X 1"
1005004	PPHS 8 - 32 X 3/4" TYPE F
016042	VACUUM TUBING 1/4"
0509003	3/8" NYLON TUBING

### 2160-BIENFANG\* 4468H VACUUM PRESS

004001	PPHS 6 - 32 X 3/8", TYPE F
012011	3/8" SPLIT LOCK WASHER
012015	1/4" SPLIT LOCK WASHER
040030	HINGE SCREWS 1/4 - 20 X 1"
1005004	PPHS 8 - 32 X 3/4" TYPE F
016042	VACUUM TUBING 1/4"
0509003	3/8" NYLON TUBING

## ITEM# PART DESCRIPTION

### 2180-BIENFANG 3648H VACUUM PRESS

004001	PPHS 6 - 32 X 3/8", TYPE F
012011	3/8" SPLIT LOCK WASHER
012015	1/4" SPLIT LOCK WASHER
040030	HINGE SCREWS 1/4-20 X 1"
1005004	PPHS 8 - 32 X 3/4" TYPE F
016042	VACUUM TUBING 1/4"
0509003	3/8" NYLON TUBING

### 2292-BIENFANG MULTISEAL 252

006008	PPHS 10-32 X 5/8"
006009	PPHS 10-32 X 3/8"
1308058	MOTOR FUSE - GLASS BODY 0.6AMP
1308052	INPUT FUSE - CERAMIC 15 AMP
1022016	SIDE PANEL SCREWS USE BBHS 6-32 X 1/4"
1022018	SIDE PANEL SCREWS USE BBHS 10-32 X 3/8"



Elmer's Products, Inc.  
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Website: [www.forframersonly.com](http://www.forframersonly.com)

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# Bienfang<sup>®</sup>