SAFETY INFORMATION

This symbol alerts you to the possibility of serious injury or death if instructions are not followed.

This symbol alerts you to the possibility of damage to or destruction of equipment if instructions are not followed.

Failure to heed these warnings may result in loss of load, damage to the press and/or failure resulting in property damage, personal or fatal injury. This operating manual contains important details concerning the safe operation of this tool.

The user must read and understand these details before any use of the tool. This manual must be retained for future reference.

- Read, study, understand and follow all instructions before operating this press.
- Prior to use make sure the press is securely anchored to a concrete floor, installed and operated in accordance with OSHA, state and local safety standards.
- Visual inspection of the press should be made before use, checking for signs of cracked welds, bent bed pins, loose or missing bolts, leaks, or any other structural damage. Corrections must be made before using the press.
- No alterations shall be made to this press.
- Operators and observers shall wear eye protection that meets ANSI Z87.1 and OSHA Standards.
- Parts being pressed may splinter, shatter, or be ejected from the press at a dangerous rate of speed. Due to a variety of press applications, it is the press owner’s responsibility to provide adequate guards, eye protection and protective clothing to the press operator.
- Always use a bearing shield when pressing bearings.
- Keep hands, arms, feet, and legs out of work area. Accidental slippage can result in personal injury.
- Remove all loads from movable bolster before adjusting bolster height. Beware of falling bolster.
- Press only on loads supported by movable bolster and press plates. Do not support loads on floor or press frame legs.
- When using any accessories such as press or arbor plates, be certain they are centered on the movable bolster and in full contact with both sides of the bolster.
- Use caution when positioning work to be pressed to ensure the item to be pressed cannot be ejected at a dangerous rate of speed.
- Avoid off-center loads. Do not use spacers or extenders between the press ram plunger and the item being pressed. If there is not enough ram stroke, adjust the height of the movable bolster.
- Before applying load, be certain all movable bolster supporting pins are fully engaged. Make sure movable bolster lift cables (if equipped) are slack before pressing on bolster.
- Do not exceed the rated capacity. When attachments and adapters are used, the rated capacity of the system shall be no greater than the rated capacity of the lowest-rated component or combination of components that make up the system.
- Always use an accurate force gauge to measure pressing force.
- Do not tamper with the press load-limiting device settings.
- Do not go near leaks. High pressure hydraulic fluid can puncture skin and cause serious injury, gangrene, or death. Do not use finger or skin to check for leaks. If injured, seek emergency medical help as immediate surgery is required to remove the fluid.
- Release hydraulic pressure before loosening any fittings.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands thoroughly after handling.
- Failure to understand and heed these markings may result in serious or fatal personal injury and/or property damage.

OWNER/USER RESPONSIBILITY

The owner and/or user must have an understanding of the manufacturer’s operating instructions and warnings before using this press. Personnel involved in the use and operation of equipment shall be careful, competent, trained, and qualified in the safe operation of the equipment and its proper use when servicing motor vehicles and their components. Warning information should be emphasized and understood. If the operator is not fluent in English, the manufacturer’s instructions and warnings shall be read to and discussed with the operator in the operator’s native language by the purchaser/owner, making sure that the operator comprehends its contents. Owner and/or user must study and maintain for future reference the manufacturer’s instructions. Owner and/or user is responsible for keeping all warning labels and instruction manuals legible and intact. Replacement labels and literature are available from the manufacturers.

INSPECTION

Visual inspection of the shop press should be made before each use of the press, checking for damaged, loose or missing parts. Each press must be inspected by a manufacturer’s repair facility immediately, if subjected to an abnormal load or shock. Any press which appears to be damaged in any way, is found to be badly worn, or operates abnormally must be removed from service until necessary repairs are made by a manufacturer’s authorized repair facility. It is recommended that an annual inspection of the press be made by a manufacturer’s authorized repair facility and that any defective parts, decals or warning labels be replaced with manufacturer’s specified parts. A list of authorized repair facilities is available from the manufacturer.

PRESS SPECIFICATIONS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>520-5000</td>
<td>61.5&quot;</td>
<td>20&quot;</td>
<td>26&quot;</td>
<td>8.75&quot;</td>
<td>5&quot;</td>
<td>.75&quot;</td>
<td>Y(2)</td>
</tr>
<tr>
<td>520-5001</td>
<td>64.5&quot;</td>
<td>24.5&quot;</td>
<td>26&quot;</td>
<td>11.25&quot;</td>
<td>5.125&quot;</td>
<td>1&quot;</td>
<td>Y(2)</td>
</tr>
</tbody>
</table>

A - Total Height
B - Inside Width
C - Press Feet Length
D - Bed Width
E - Stroke (ram travel distance from fully retracted position to fully extended position)
F - Pin Diameter
G - Press Plates Included
**ASSEMBLY INSTRUCTIONS CONTINUED**

**PARTS LIST**

**ESTIMATED ASSEMBLY TIME: 30 MINUTES**

- **Press Frame - 1**
- **Press Bed - 1**
- **Press Feet - 2**
- **Z Bar - 1**
- **1/2"-13 x 1-1/2" Hex Head Bolts - 4**
- **1/2" Nuts - 4**
- **Washers - 4**
- **5/16"-13 x 1" Hex Head Bolt - 1**
- **Press Pins - 2**
  - 520-5000 - (2) 3/4" x 10" Pins
  - 520-5001 - (2) 1" x 12" Pins
- **Power Unit - 1**
  - 520-5000 - 12 Ton Power Unit
  - 520-5001 - 20 Ton Power Unit
- **Pump Handle & Extension - 1**
- **2" Punch - 1**
  - Accessory only - Not needed for assembly
- **Bearing Shield - 1**
  - Accessory only - Not needed for assembly
- **Press Plates - 2**
  - Accessory only - Not needed for assembly
  - 520-5000 - (2) 1" x 2" x 10" Plates
  - 520-5001 - (2) 3/4" x 3" x 12" Plates

**ACCESSORIES**

- **TOOLS NEEDED**
  - 1/2" and 5/16" Box Wrenches

Examine box contents, then proceed with the following instructions.
**ASSEMBLY INSTRUCTIONS**

**1**
Stand frame upside down

**2**
Slide bed onto frame
Slide bed down to bottom of frame

**3**

**WARNING**
Be aware of jagged edges on frame. Not all welds are smooth. Press bed can pinch or crush fingers. Wear safety gloves.

**WARNING**
Leg ends and press feet are sharp and potentially dangerous. Wear safety gloves and safety goggles.

Note: In the upright position, inner bracing should form an inverted "v" with the narrower space facing the top of the press.

Note: Position press feet on each side of the press. Attach one bolt, washer and nut on each side. Bolts should be attached OFFSET from one another.
Use bolts, washers and nuts to attach Z Bar to both sides of the press.

Note: Check all bolts for tightness. If press rocks, or is not level, loosen press feet slightly to compensate and retighten.

**WARNING**

Bed must be at the BOTTOM of the frame before proceeding to the next step.

Note: When sliding bed to frame bottom, DO NOT use bed handles.
6. Stand unit upright. Slide bed above holes and hold in place. Secure pins underneath bed, one at a time.

**WARNING** Pins must be COMPLETELY through BOTH SIDES of frame.

### PROCEDURE FOR BLEEDING AIR

1. Align power unit with "V" in top plate (opening in "V" faces the front side of the press).
2. Insert punch into receptacle UNDER bottom plate.
3. Tighten screw to secure punch.
4. Open the release valve by rotating the handle counterclockwise ONE full turn.

**Note:** If the unit responds immediately to pump action, it is free of air and ready for operation. If not, repeat procedure.

5. Place handle in cradle. Pump 6 full strokes to purge air.
6. Close valve.
7. Pump until unit reaches full extension. Keep pumping under load to purge all air.
8. Open valve and push ram to its lowest position.
9. Close valve and operate normally.
1. Place the handle on the release valve and rotate clockwise until the valve is closed (hand tighten only).

2. Place the handle in the cradle. Move handle up and down to lower the carriage and apply force to the item being pressed.

3. To release pressure, remove the handle from the cradle and use the handle to slowly turn the release valve counterclockwise. The power unit cylinder will retract and the press cradle will return to the stored position.

Note: When not in use, store power unit with the piston in the fully retracted position and the release valve closed.
**520-5000 - 12 Ton Hydraulic Press**

**520-5001 - 20 Ton Hydraulic Press**

### Replacement Parts List

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RSCBP1214</td>
<td>Spring</td>
<td>2</td>
</tr>
<tr>
<td>2*</td>
<td>RS500012</td>
<td>Press Bed (520-5000)</td>
<td>9</td>
</tr>
<tr>
<td>2*</td>
<td>RS50034</td>
<td>Press Pin (520-5001)</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>RS310012</td>
<td>Pushing Adapter</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>RS550041</td>
<td>Press Plate</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>RS550045</td>
<td>Bearing Shield</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>RS550046</td>
<td>Z Bar (520-5000)</td>
<td>1</td>
</tr>
<tr>
<td>7†</td>
<td>RS550047</td>
<td>Z Bar (520-5001)</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>RS49HD12</td>
<td>Power Unit Handle</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>RS550048</td>
<td>1/2&quot;-13 x 1-1/2&quot; Hex Head Bolt</td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td>RS550049</td>
<td>1/2&quot; Nut</td>
<td>4</td>
</tr>
<tr>
<td>11</td>
<td>RS550050</td>
<td>Washer</td>
<td>4</td>
</tr>
</tbody>
</table>

* Items identified with an asterisk (*) are not available separately.
† Power Units may be purchased as 520-1041 for the 12 ton and 520-1042 for the 20 ton at your local NAPA Auto Store.
**PARTS LIST**

- **Z Bar** - 1
- **520-5000 & 520-5001 Operation Manual**

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**POWER UNIT INSTRUCTIONS**

1. **Align power unit with “V” center.**
2. **Place the handle in the cradle.**
3. **Tighten screw to secure punch.**
4. **520-5000 - (2) 3/4” x 10” Pins** (hand tighten only).
5. **rotate clockwise until the valve is closed**
6. **520-2006 and 520-2007 Stands:**

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**SAFETY INFORMATION**

**WARNING**

- Do not go near leaks. High pressure hydraulic fluid can puncture skin and cause serious injury, gangrene, or death. Do not use finger or skin to check for leaks. If injured, seek emergency medical help as immediate surgery is required to remove the fluid.
- Do not tamper with the press load-limiting device settings.
- Do not exceed the rated capacity. When attachments and adapters are used, the equipment must be retested after each application and return to its unmodified state before use. The equipment must be in proper working order before proceeding to the next step.
- Operators and observers shall wear eye protection that meets ANSI Z87.1 and OSHA requirements. Operators shall wear hearing protection at a level not to exceed 85 decibels.
- Prior to use make sure the press is securely anchored to a concrete floor, installed level and the piston is in its fully retracted position. If the press is not properly installed, it will lose its structural integrity and potentially collapse. If the press is not installed on a level surface, it will be difficult to operate and can cause personal injury.
- The owner and/or user must have an understanding of the manufacturer’s operating instructions if instructions are not followed.
- The work piece can pop out from under the ram at a high rate of speed and injure someone. Make sure movable bolster lift cables (if equipped) are slack before proceeding to the next step.

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**PROCEDURE FOR BLEEDING AIR**

1. **Align power unit with “V” center.**
2. **Close valve.**
3. **Keep pumping under load to purge all air.**
4. **7. Pump until unit reaches full extension.**
5. **6. Close valve.**
6. **9. Close valve and ram to its lowest position.**
7. **5. Place handle in cradle.**
8. **2. Place the handle in the cradle.**

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**PRESS SPECIFICATIONS**

- **Pressing Bearings:** It is essential that you use the bearing shield when pressing bearings or attachments. Failure to use the bearing shield can result in serious injury to operators and observers.
- **Position press on a flat, level, hard surface, preferably concrete.** Make sure all nuts and bolts are tight before proceeding.
- **Fully retract unit and remove all items from the press bed frame.**
- **CHECK YOUR LOCAL, STATE AND FEDERAL REGULATIONS REGARDING THE SAFE USE OF THIS EQUIPMENT.**
- **The following items possess an over-the-counter exchange warranty for 180 days.** This allegedly defective product must be replaced or repaired, at our option, without charge. This warranty does not apply to damage from accident, misuse or abuse.
- **Balkamp warrants that all jacks and service-related equipment will be free from defects in material and workmanship for a period of 180 days following the original date of purchase.** This warranty is extended to the original retail purchaser only. If any jack or service-related item proves to be defective during this period, it will be replaced or repaired, at our option, without charge. This warranty does not apply to damage from accident, misuse or abuse.
- **The liability of any claim for loss or consequential damages, so the above limitation may not apply to you.**

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**INFORMATION BEFORE OPERATING THIS TOOL.**

**SAVE THIS MANUAL FOR FUTURE USE.**

THIS OPERATING MANUAL CONTAINS IMPORTANT SAFETY INFORMATION. READ CAREFULLY AND UNDERSTAND ALL INSTRUCTIONS BEFORE OPERATING THE PRESS. THE USER MUST READ AND UNDERSTAND THESE DETAILS BEFORE ANY USE OF THE TOOL. THIS MANUAL MUST BE RETAINED FOR FUTURE REFERENCE.

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**REPLACEMENT**

- **Power Unit** - 1
- **520-5000 - (2) 1” x 2” x 10” Plates**
- **3. Tighten screw to secure punch.**
- **1. Place the handle in the cradle.**
- **2. Place the handle in the cradle.**
- **10. RS20FT Press Feet (520-5001) 2**
- **11. RS550049 Z Bar (520-5000) 1**
- **RS12FT Press Feet (520-5000) 2**
- **RS5212BK Press Hardware Kit 1 set**
- **RS20FT Press Feet (520-5001) 2**
- **RS310012 Pushing Adapter 1**
- **RSBS1 Bearing Shield 1**
- **11. RS5212BK Press Hardware Kit 1 set**

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**NOTICE**

- **The owner and/or user must have an understanding of the manufacturer’s operating instructions if instructions are not followed.**
- **SAFETY INFORMATION**
- **PROCEDURE FOR BLEEDING AIR**
- **PRESS SPECIFICATIONS**
- **INFORMATION BEFORE OPERATING THIS TOOL.**

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- The owner and/or user must have an understanding of the manufacturer’s operating instructions if instructions are not followed.
- The work piece can pop out from under the ram at a high rate of speed and injure someone. Make sure movable bolster lift cables (if equipped) are slack before proceeding to the next step.

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NAPA LIFTING EQUIPMENT Warranty Statement

Warranty Handling Procedures & Guidelines for Balkamp/NAPA Lifting Equipment

180 Day Warranty

Balkamp warrants that all jacks and service-related equipment will be free from defects in material and workmanship for a period of 180 days following the original date of purchase. This warranty is extended to the original retail purchaser only. If any jack or service-related item proves to be defective during this period, it will be replaced or repaired, at our option, without charge. This warranty does not apply to damage from accident, overload, misuse or abuse, nor does it apply to any equipment which has been altered or used with special attachments other than those recommended. This warranty does not cover repairs made by anyone who is not a Balkamp/NAPA Lifting Equipment Authorized Repair Center.

The following items possess an over-the-counter exchange warranty for 180 days. This allegedly defective product must be returned, accompanied by a receipt showing proof-of-purchase to Balkamp, via the NAPA AUTO PARTS store.

| Bottle Jacks: | 520-1037, 520-1038, 520-1039, 520-1040, 520-1041, 520-1042, 520-1021 and 520-1022 |
| Floor Jacks: | 520-1003, 520-1005 and 520-1006 |
| Hydraulic Power Units: | 520-6004 and 520-6008 |

All other jacks or service-related equipment will be replaced or repaired at Balkamp’s option during the 180 day warranty period.

During the 180 day warranty period, all alleged defective product and/or parts must be shipped, freight prepaid, along with proof of date-of-purchase, to your nearest Balkamp/NAPA Lifting Equipment Authorized Warranty Center. Be certain to include your name, address and phone number along with proof-of-purchase information, and a brief description of the alleged defect. The product will be returned to the customer, freight prepaid.

Many alleged defects may simply be handled by calling your nearest Service Center for parts. A list of authorized warranty service centers is provided with the product.

In no event shall Balkamp be liable for incidental or consequential damages. The liability of any claim for loss or damage arising out of the sale, resale or use of a jack or related service equipment, shall in no event exceed the purchase price. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

THIS WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY PROVIDED IN CONNECTION WITH THE SALE OF BALKAMP/NAPA PROFESSIONAL LIFTING EQUIPMENT. ALL OTHER WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.