

## SAFETY INFORMATION



THIS OPERATING MANUAL CONTAINS IMPORTANT SAFETY INFORMATION. READ CAREFULLY AND UNDERSTAND ALL INFORMATION BEFORE OPERATING THIS TOOL. SAVE THIS MANUAL FOR FUTURE USE.

### WARNING

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

### CAUTION

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

### WARNING

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.

ing 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, and understand all instruction manuals packed with this press before operating.
- Always wear safety goggles.
- Parts being pressed may splinter, shatter, or be ejected from the press at a dangerous rate of speed. Because of the variety of press applications, it is your responsibility to always use adequate guards and wear eye protection and heavy protective clothing when operating the press.
- Visual inspection should be made before each use of the press, checking for signs of cracked welds, bent bed pins, loose or missing bolts, leaks, or any other structural damage.
- Do not go near leaks. High pressure oil can puncture skin and cause serious injury, gangrene, or death. If injured, seek emergency medical help. Immediate surgery is required to remove oil.
- Keep hands and fingers out of the press and away from parts that may shift and pinch. Do not stand in front of work area when load is applied.
- Always use an accurate pressure gauge to measure pressing force.
- Do not exceed the rated capacity of this press.
- Never tamper with hydraulic system pressure settings.
- Do not substitute bolts, pins or any part of the components. Use only genuine factory replacement parts.
- Always center load on ram plunger. Offset loads can damage ram and may cause load to eject at a dangerous rate of speed.
- Remove all loads from press bed before attempting to adjust bed height. Beware of possibility of falling bed.
- Press only on loads supported by press bed and included press plates. Do not support loads on floor or press frame.
- When using any accessories such as arbor plates, be certain they are centered on press bed and are in full contact with press bed.
- Before applying load, be certain all press bed supporting pins are fully engaged.
- Always use a bearing shield when pressing bearings. Use caution when positioning work to be pressed to ensure that the item that is to be pressed cannot be dislodged or broken during press work. This may result in the item being ejected from the press at a dangerous rate of speed.
- Release hydraulic pressure before loosening any fittings.
- Maintain proper hydraulic fluid levels.
- Do not make any alterations to the press.

### 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.

### SAFETY INSTRUCTIONS

- CHECK YOUR LOCAL, STATE AND FEDERAL REGULATIONS REGARDING THE SAFE USE OF THIS EQUIPMENT.
- Your safety is top priority, please handle equipment with care.
- Fully retract unit and remove all items from the press bed frame.
- Support the press bed, and remove the pins.
- Raise or lower bed to desired height and reinstall press pins. Be certain pins are fully engaged in the parallel flanges of the upright columns.
- Position press on a flat, level, hard surface, preferably concrete. Make sure all nuts and bolts are tight.
- Clear the area of bystanders, especially small children, before using.
- Set the press bed to the required height. The press is most effective when the work piece is located 1 inch below the ram's retracted position. The compression stroke can include the entire 5 inch working range.
- The press is designed to exert a force on anything which is positioned beneath its ram. The work piece can pop out from under the ram at a high rate of speed and injure someone.
- Pressing Bearings: It is essential that you use the bearing shield when pressing bearings on or off.
- A bearing shield or screen must be used.

### PRESS SPECIFICATIONS

Part No.	A	B	C	D	E	F	G
520-5000	61.5"	20"	26"	8.75"	5"	.75"	Y(2)
520-5001	64.5"	24.5"	26"	11.25"	5.125"	1"	Y(2)

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)

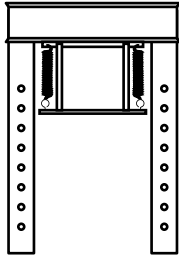
F - Pin Diameter

G - Press Plates Included

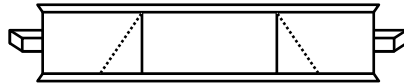
## PARTS LIST

ESTIMATED ASSEMBLY TIME: 30 MINUTES

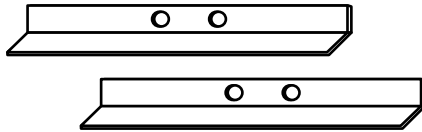
Press Frame - 1



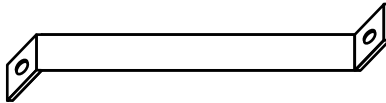
Press Bed - 1



Press Feet - 2



Z Bar - 1



1/2"-13 x 1-1/2" Hex Head Bolts - 4



1/2" Nuts - 4



Washers - 4

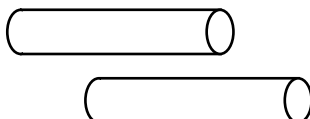


5/16"-13 x 1" Hex Head Bolt - 1



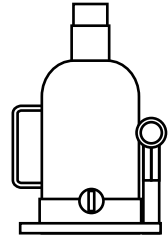
Press Pins - 2

520-5000 - (2) 3/4" x 10" Pins  
520-5001 - (2) 1" x 12" Pins

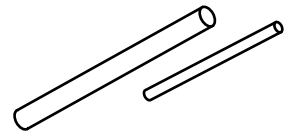


Power Unit - 1

520-5000 - 12 Ton Power Unit  
520-5001 - 20 Ton Power Unit



Pump Handle & Extension - 1



## ACCESSORIES

2" Punch - 1

*Accessory only -  
Not needed for assembly*



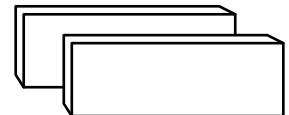
Bearing Shield - 1

*Accessory only -  
Not needed for assembly*

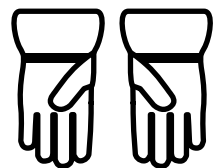
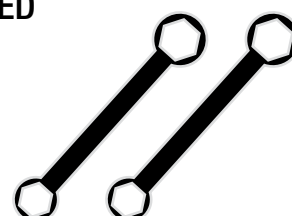
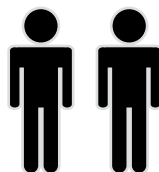


Press Plates - 2

*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



## TOOLS NEEDED

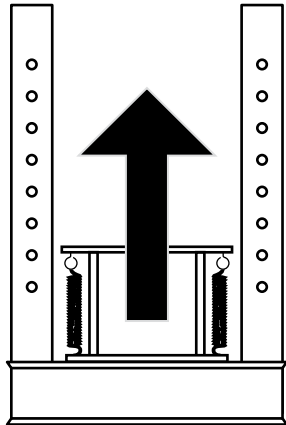


1/2" and 5/16" Box Wrenches

Examine box contents, then proceed with the following instructions.

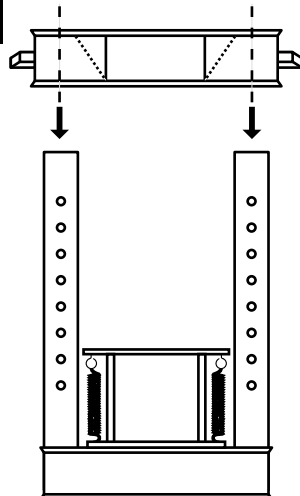
### ASSEMBLY INSTRUCTIONS

1

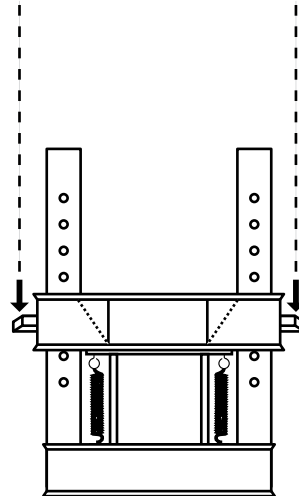


Stand frame upside down

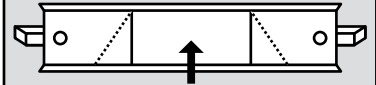
2



Slide bed onto frame



Slide bed down to bottom of frame

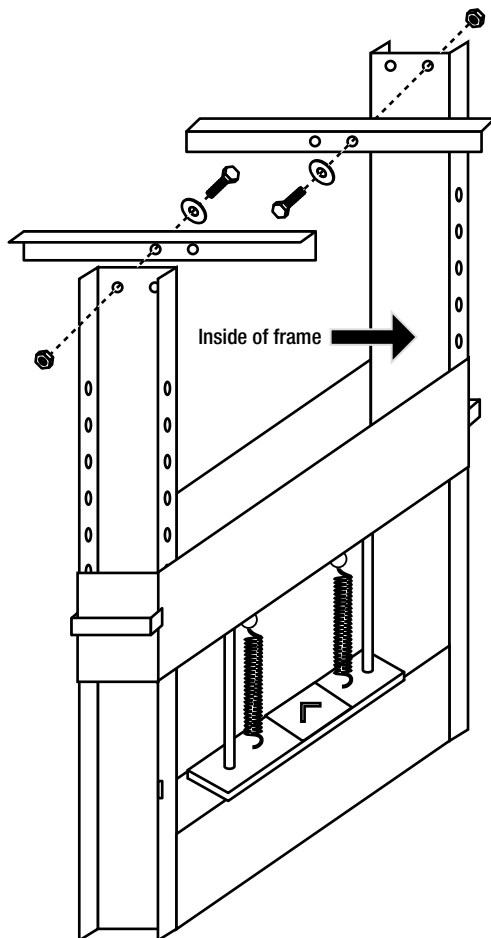
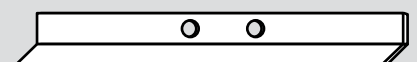
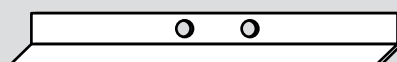
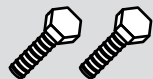


**Note:** In the upright position, inner bracing should form an inverted "v" with the narrower space facing the top of the press.

### ⚠ WARNING

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

3

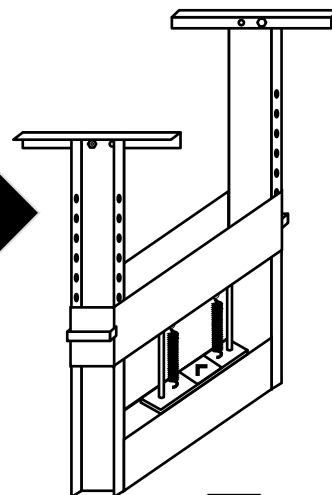


Inside of frame

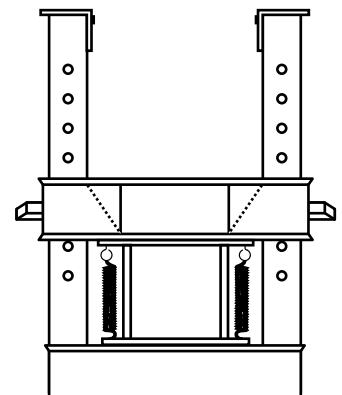


### ⚠ WARNING

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



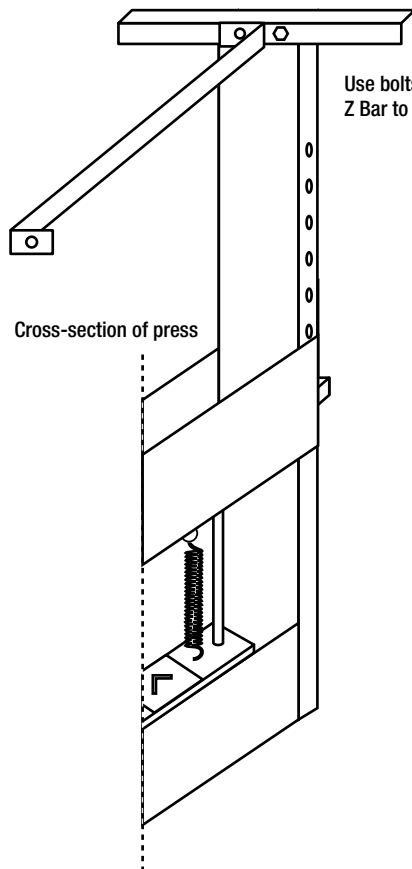
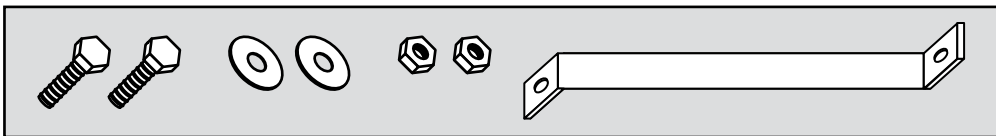
**Note:** Position press feet on each side of the press. Attach one bolt, washer and nut on each side. Bolts should be attached *OFFSET* from one another.



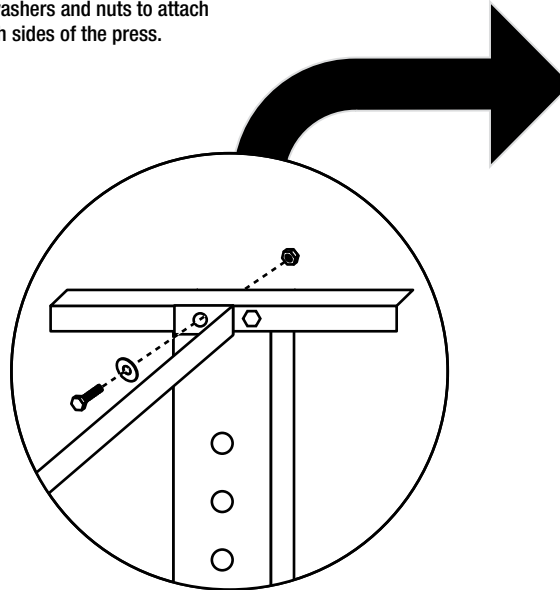
Front view

### ASSEMBLY INSTRUCTIONS CONTINUED

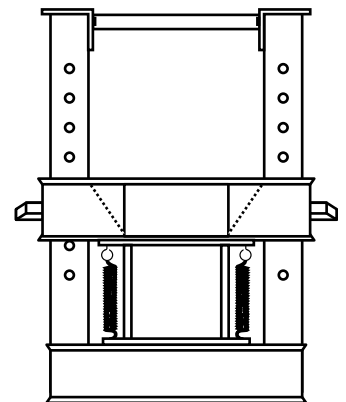
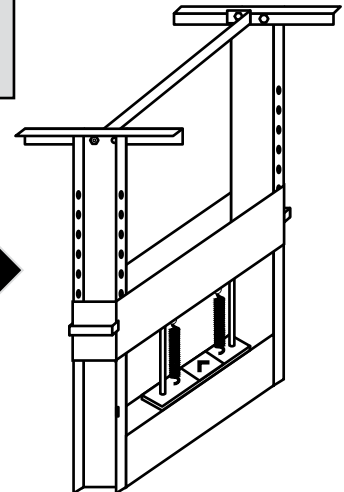
4



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.



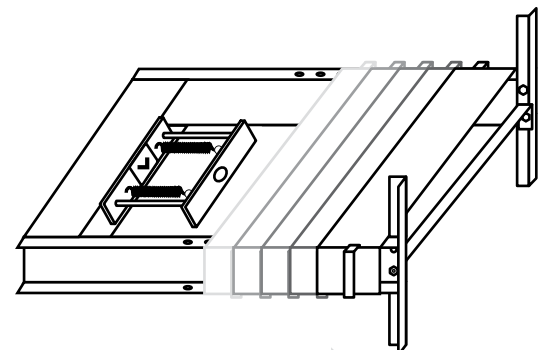
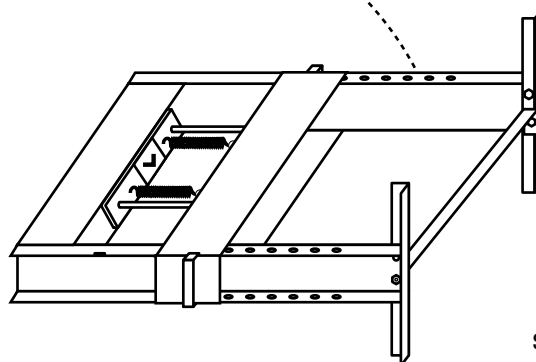
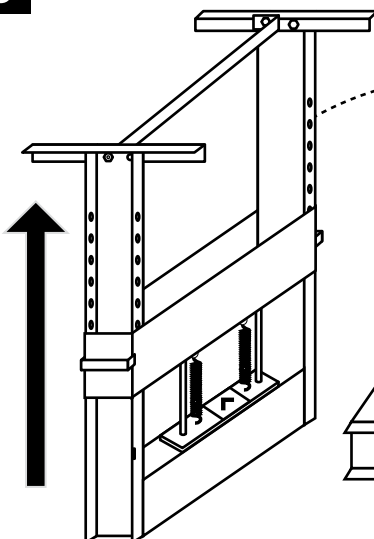
Front view

5

### ⚠ WARNING

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

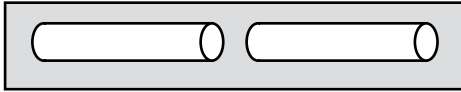
**Note:** When sliding bed to frame bottom, DO NOT use bed handles.



Slide bed down to bottom of frame

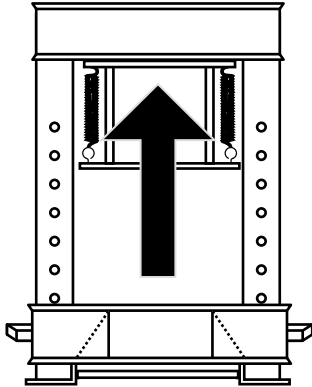
### ASSEMBLY INSTRUCTIONS CONTINUED

6

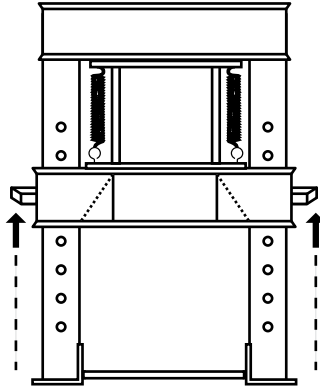


#### WARNING

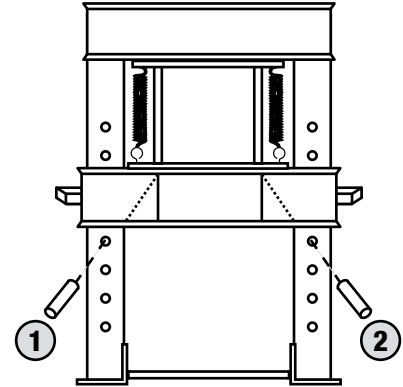
Pins must be COMPLETELY through BOTH SIDES of frame.



Stand unit upright



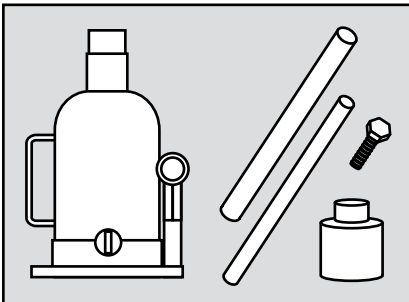
Slide bed above holes and *hold in place*



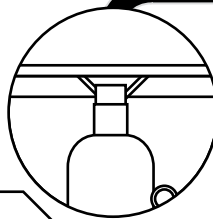
Secure pins underneath bed, one at a time

### PROCEDURE FOR BLEEDING AIR

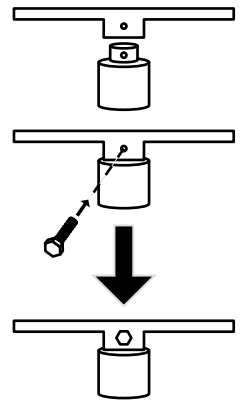
7



1. Align power unit with "V" in top plate (opening in "V" faces the front side of the press).

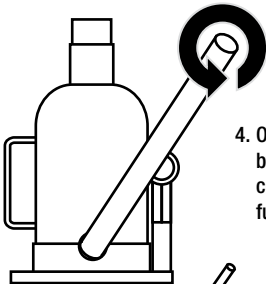


2. Insert punch into receptacle UNDER bottom plate.

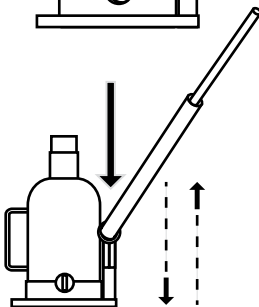


3. Tighten screw to secure punch.

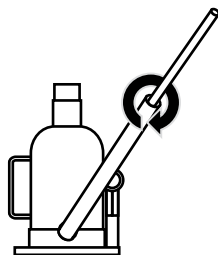
4. Open the release valve by rotating the handle counterclockwise ONE full turn.



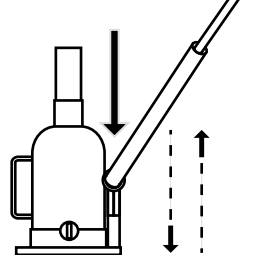
5. Place handle in cradle.  
Pump 6 full strokes to purge air.



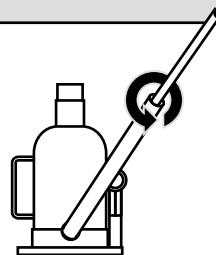
6. Close valve.



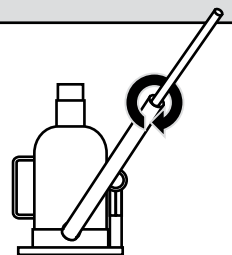
7. Pump until unit reaches full extension.  
Keep pumping under load to purge all air.



8. Open valve and push ram to its lowest position.



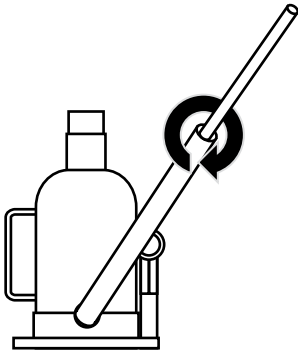
9. Close valve and operate normally.



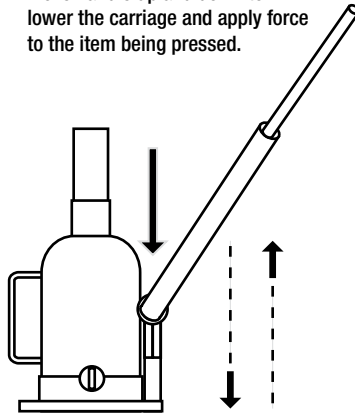
**Note:** If the unit responds immediately to pump action, it is free of air and ready for operation. If not, repeat procedure.

## POWER UNIT INSTRUCTIONS

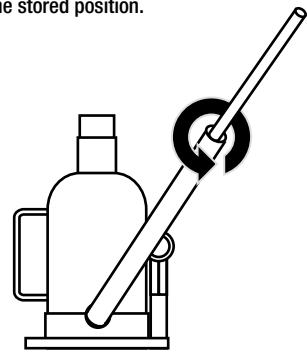
1. Place the handle on the release valve and rotate clockwise until the valve is closed (hand tighten only).



- 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.



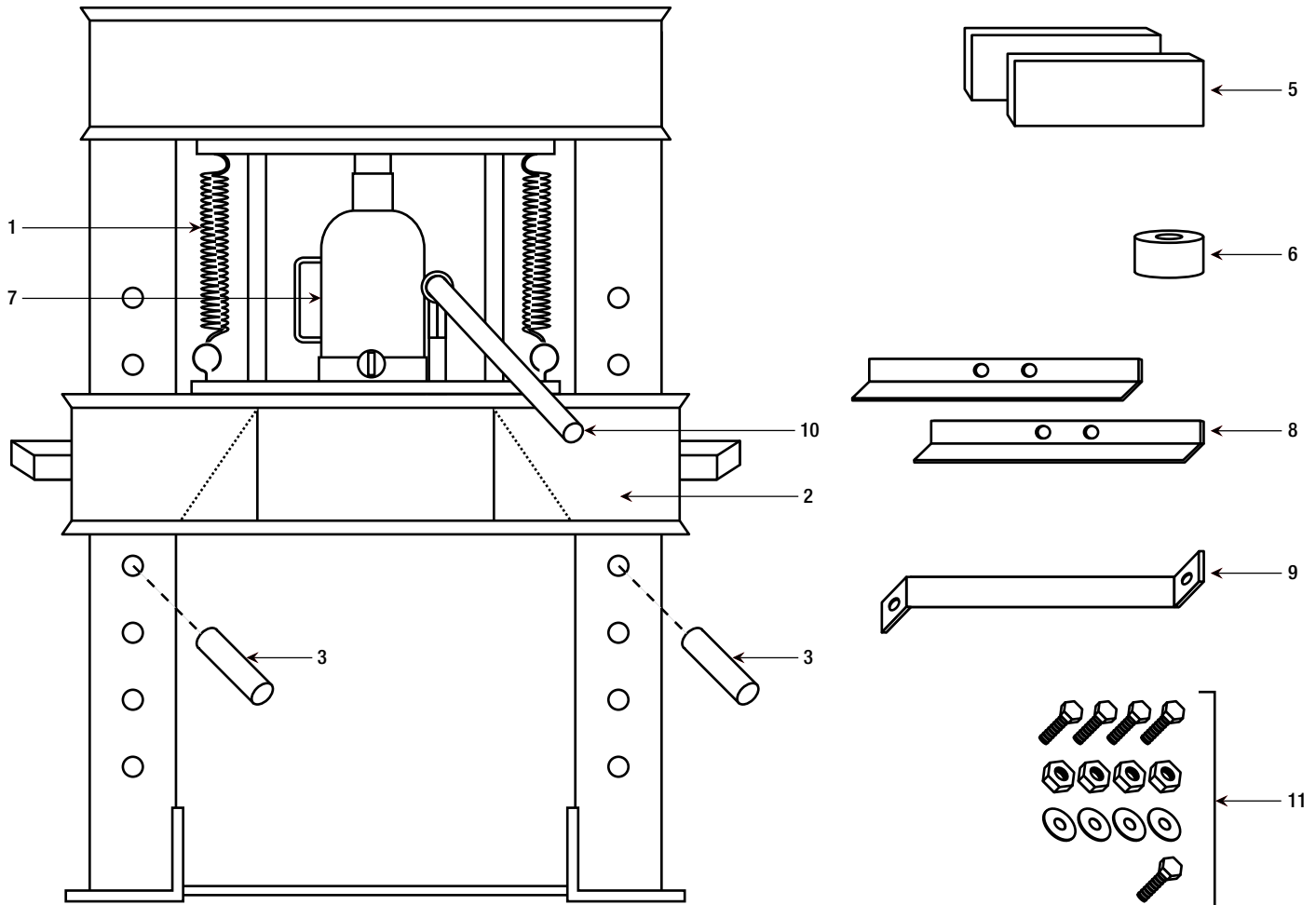
**Note:** When not in use, store power unit with the piston in the fully retracted position and the release valve closed.

## NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

### REPLACEMENT PARTS LIST

#### 520-5000 - 12 Ton Manual Shop Press 520-5001 - 20 Ton Manual Shop Press



ITEM NO.	REPLACEMENT PART NO.	DESCRIPTION	QTY.	ITEM NO.	REPLACEMENT PART NO.	DESCRIPTION	QTY.
1	RS345009	Spring	2	8	RS12FT	Press Feet (520-5000)	2
* 2		Press Bed (520-5000)	1		RS20FT	Press Feet (520-5001)	2
*		Press Bed (520-5001)		9	RS550049	Z Bar (520-5000)	1
3	RS12PP	Press Pin (520-5000)	2		RS550051	Z Bar (520-5001)	1
	RS550034	Press Pin (520-5001)	2	10	RS49HDL12	Power Unit Handle	1
4	RS310012	Pushing Adapter	1	11	RS5212BK	Press Hardware Kit	1 set
5	RS550041	Press Plate	2		Includes:	1/2"-13 x 1-1/2" Hex Head Bolt	4
6	RSBS1	Bearing Shield	1			1/2" Nut	4
† 7	912P	12 Ton Power Unit (includes handle) (520-5000)	1			Washer	4
†	920P	20 Ton Power Unit (includes handle) (520-5001)	1			5/16"-13 x 1-1" Hex Head Bolt	1

Items identified with a 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.





# **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**

**Stands:**                         **520-2000, 520-2001, 520-2002, 520-2005,  
520-2006 and 520-2007**

**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 defectives 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.