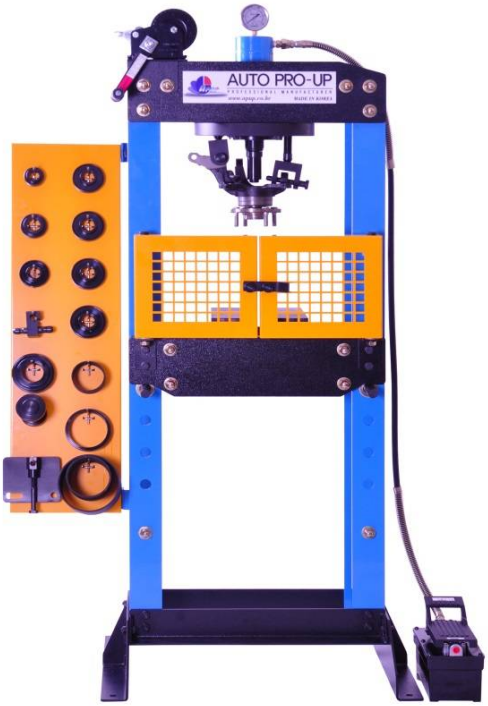
Heavy Duty Hydraulic Workshop Press, Floor Mounted. Operation Manual (PS500/1000/1500/2000)



WORKSHOP PRESS /ENGLISH

INSPECTION

Visual inspection shall be made before each use of this equipment, checking for abnormal conditions, such as cracked welds, leaks, damaged, loose or missing parts. This equipment shall be removed immediately from service if it is believed to have been subjected to an abnormal or shock load, the equipment shall be inspected by a qualified repair facility. Owners and / or operators should be aware that repair of this equipment may require specialized knowledge and facilities.

WARNING

- When using the press, basic safety precautions should always be followed.
- Keep work area clean and free from debris.
- Keep children away from work area and shop equipment. Keep hands and feet from loading area.
- Always wear protective eyewear during press operation. If possible position press in an isolated area and shield it to prevent possible injury to others.
- Ensure press is stable and that the components to be pressed shall be well supported and aligned to prevent slippage and breaking. Make sure press bed pins are inserted in the upright frame holes all the way and the pins are fully supporting the press bed channel flanges before pressing.
- Some parts being pressed may have a tendency to pop out of the press or explode under pressure.
- Parts being pressed should be shielded against shattering under pressure.
- The press is designed for pressing purposes only.
- Do not exceed the rated capacity of the press. Never apply excessive force to a work-piece and always use a force gauge to accurately determine the applied load.
- Check press for loose or damaged parts before each operation. Replace damaged parts and tighten all loose bolts before operating.
- Never leave loaded press unattended.
- Ensure the user is familiar with the controls and operational characteristics of this product and aware of the potential hazards associated with its use.
- No alterations shall be made to this product.

IMPORTANT SAFETY INFORMATION

It is mandatory that the operator has a full understanding of all instructions, safety regulations, cautions and warning before starting to operate any of this high-force tool equipment.

1. Keep hands away from Arbor Plates and Press Apron

2. Do not move workpiece while compressed.

3. Release load before service or maintenance.

4. Bolt to floor before use.

5. Keep area under Arbor Plates clear. If Arbor Plates rest on obstruction(i.e. bolt, debris, etc.), it creates an uneven press, causing excess stress and possible breakage.

6. Avoid off-center loads. Do not operate if workpiece tilts or binds during compression.

7. Do not stand directly in front of the press when loaded. Do not leave the press unattended when loaded.

8. Do not operate the hydraulic ram beyond rated capacity.

9. Ram service must be performed ONLY by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.

10. Use this press on a stable, level, dry surface capable of sustain load.

11. Make sure all bolts and nuts are firmly tightened before use.

12. This product is not a toy. Keep it out of reach of children at all times.

Avoid situations where loads are not directly centered on the cylinder plunger. Off-center loads produce considerable strain on cylinders and plungers. In addition, the load may slip or fall, causing dangerous results.

LIMITED WARRANTY

Auto Pro-Up Workshop Press is warranted by the manufacturer against defects in materials and manufacturer workmanship for a period of eightteen (18) months from date of shipment.

Auto Pro-Up Company(APUP) sells its products through authorized retail only to ensure that consumers obtain quality after sale support and service. The warranty NOT VALID if the products have been purchased from an unauthorized, on-line E-tailer (e.g., E-bay® sellers who are not authorized APUP resellers), or if a product's serial number has been altered, removed, or replaced in any way.

The manufacturer will not be responsible for any charges or damages incurred in the removal of the defective parts for repair, or the reinstallation of these parts after repair. Use of any components that are not APUP specified will void the warranty. This warranty shall be considered void if damage to the product(s) was due to improper installation or use, use of non-APUP specified or approved components or replacement parts, connection to an improper power source, and tampering.

PROOF OF PURCHASE

Please keep your dated proof of purchase for warranty and servicing purposes.

REPLACEMENT PARTS

Replacement parts for this product are available at Pacific Automotive Industries service center.

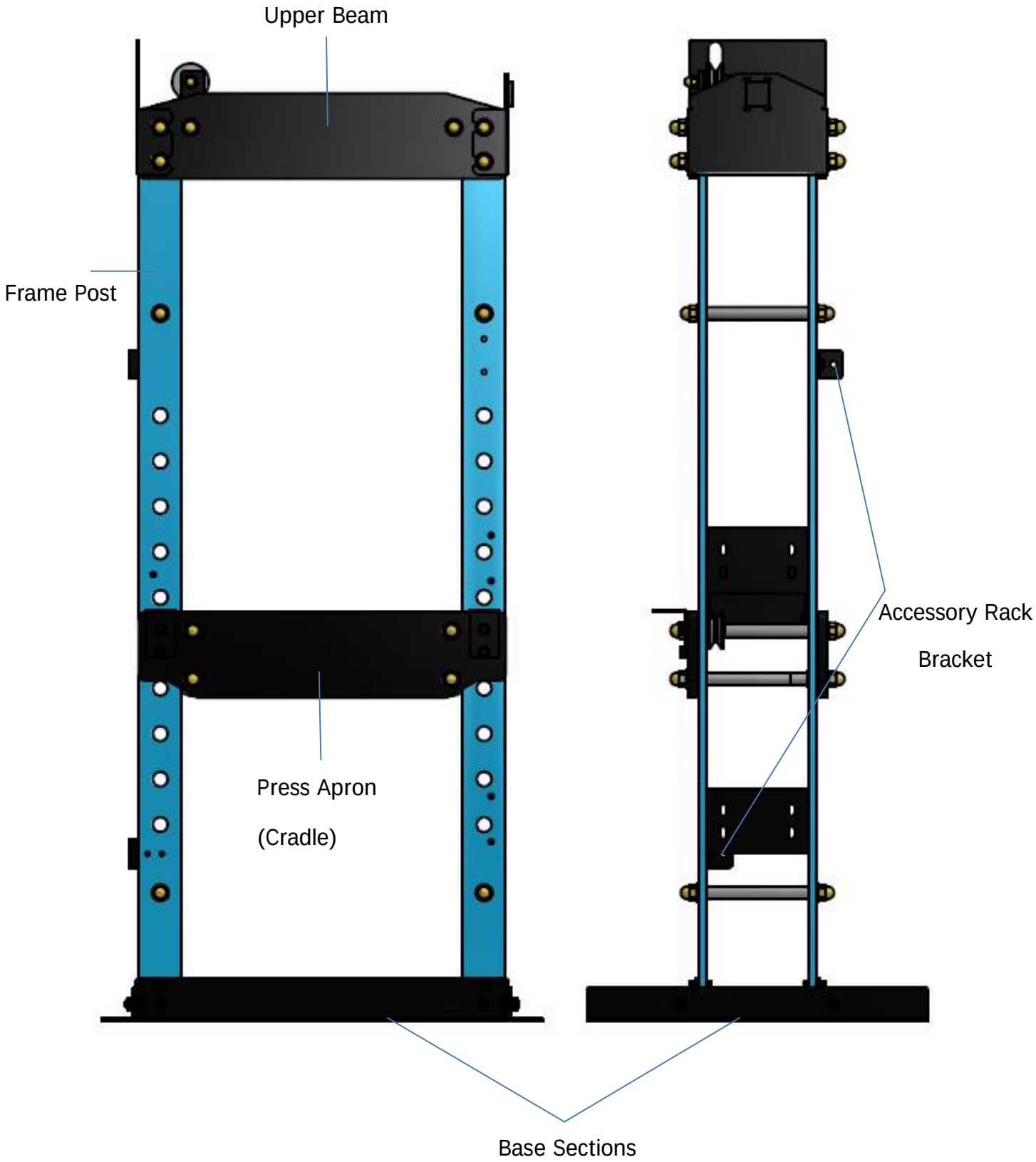
LIMITED WARRANTY

We make every effort to ensure that this product meets high quality and durability standards. We warrants to the original retail consumer a 1-year limited warranty as of the date the product was purchased at retail and that each product is free from defects in materials. Warranty does not apply to defects due directly or indirectly to misuse, abuse, and normal wear and tear, repairs done by an unauthorized service center, alterations and lack of maintenance.

We will replace the product if any part or parts covered under this warranty which examination proves to be defective in workmanship or material during that warranty period (1 year from date of delivery)

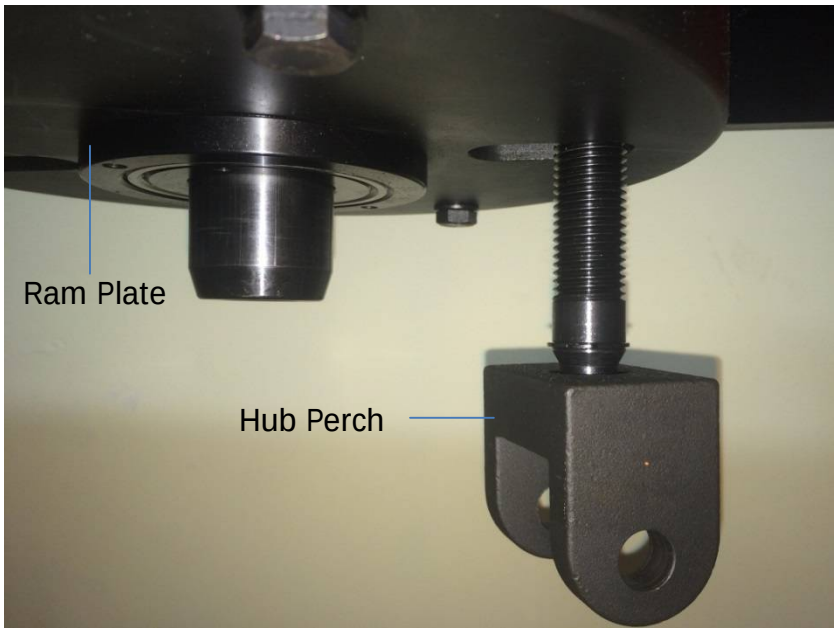
This unit is manufactured under strict quality control in APUP's factory in South Korea. If you encounter any technical difficulty while using the unit, contact your distributor or retailer for support. Manufacturer's customer support is also available by writing us at apup@apup.co.kr

BASIC STRUCTURE



Adjustable Hub Perches

All workshop presses are equipped with two hub perches that hang a front hub allowing a quick leveling and extraction. Two perches are packed in accessory carton and need to be installed to use.

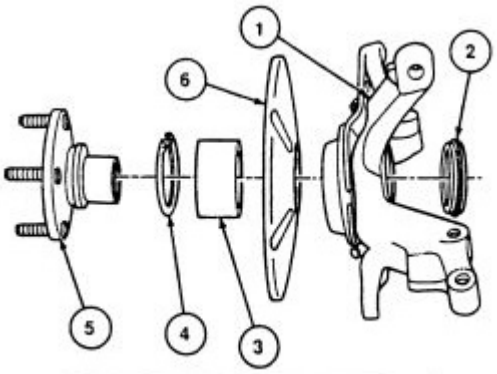


Install two adjustable hub perches to the ram plate and fasten hex nuts to secure perches.

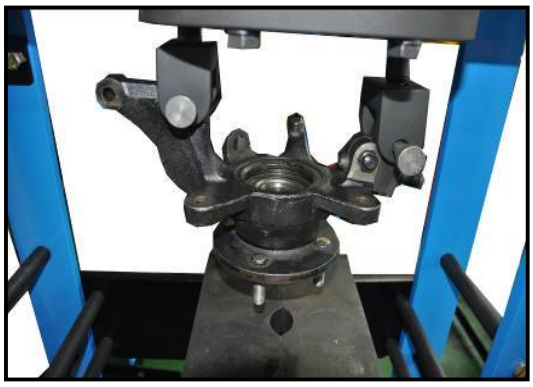
Adjust the length if necessary.

Bearing Removal

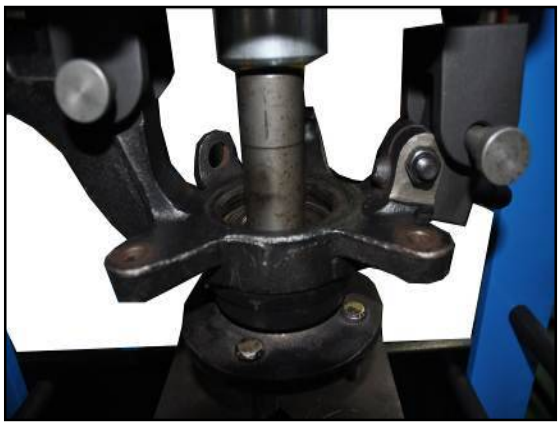
Exploded view of a common wheel hub, knuckle and bearing assembly.

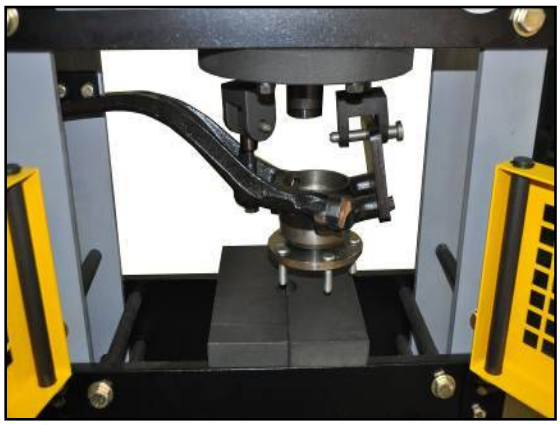


1	Wheel Knuckle
2	Inner bearing oil seal
3	Wheel Bearing
4	Retainer Ring
5	Wheel Hub
6	Rotor Shield



Place the wheel knuckle on the Arbor Plates and connect hub perches to the wheel knuckle assembly using two knuckle pins. Make sure wheel knuckle assembly is leveled as shown on the right picture.





Select the correct-size interlocking bearing adapter. Then position the Press Apron as high as possible while positioning the workpiece as close as possible to the ram. Align the workpiece to ensure center-loading. For your safety, make sure to close front safety cage before loading the ram.

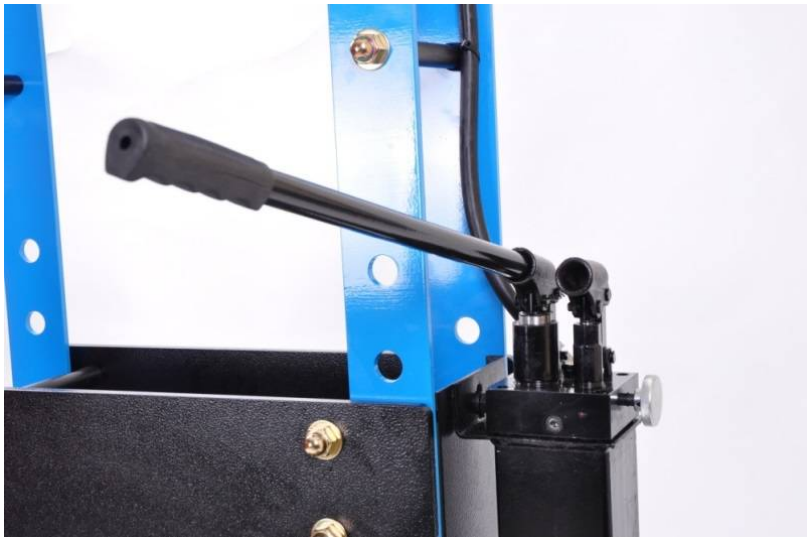
Pump the foot pedal to apply load to remove bearing from the wheel knuckle.

Bearing Installation

Position the Arbor Plates on the Press Apron first. Then place Knuckle support as shown on the picture above. Put the bearing and select the correct interlocking adapters. Then position the Press Apron as high as possible by using built-in wired winch. Align the workpiece to ensure center-loading.

Pump the manual hand-pump or foot pedal to apply load to install bearing to the wheel knuckle. Once the ram has completely retracted, remove your workpiece from the Arbor Plates and Press Apron.

CAUTION: **DO NOT** apply load to the RAM without proper interlocking adapter. It will cause damage to the ram and hydraulic cylinder.



GENERAL OPERATING INSTRUCTIONS

1. Place the item to press between the Arbor Plates.

2. Use either twin-manual pump or foot pedal. Apply load until the ram contacts your workpiece. If you are pressing two items together, line them up vertically. Continue to operate the handle to press the workpiece.

3. When the task is completed, carefully release the ram pressure.

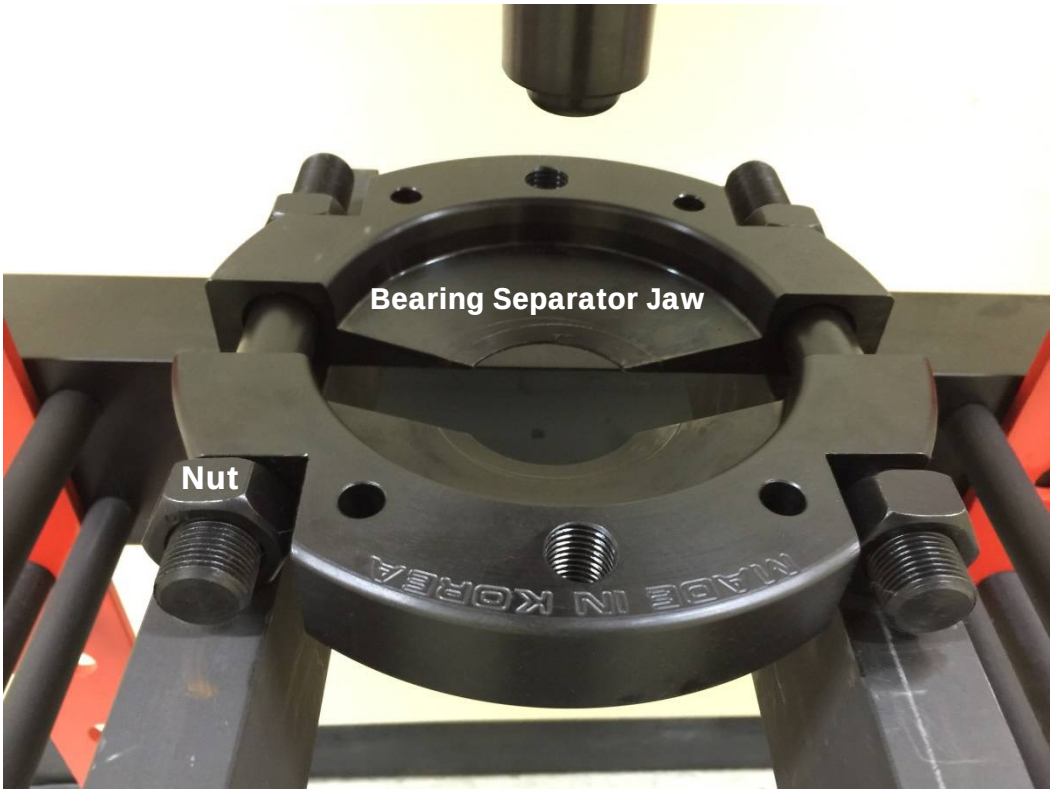
Bearing Separator

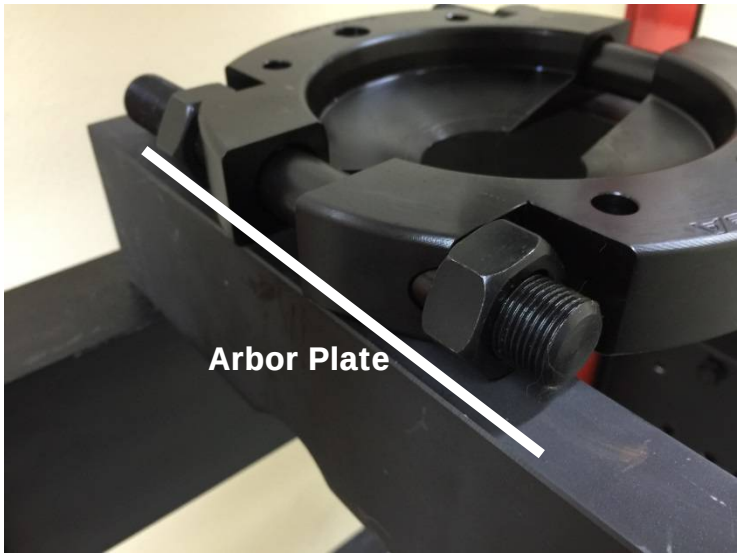
This Product is NOT a toy! Do not allow children to play with or near this item.

Be certain that the separator jaws are evenly set between bearing halves before attempting to separate.

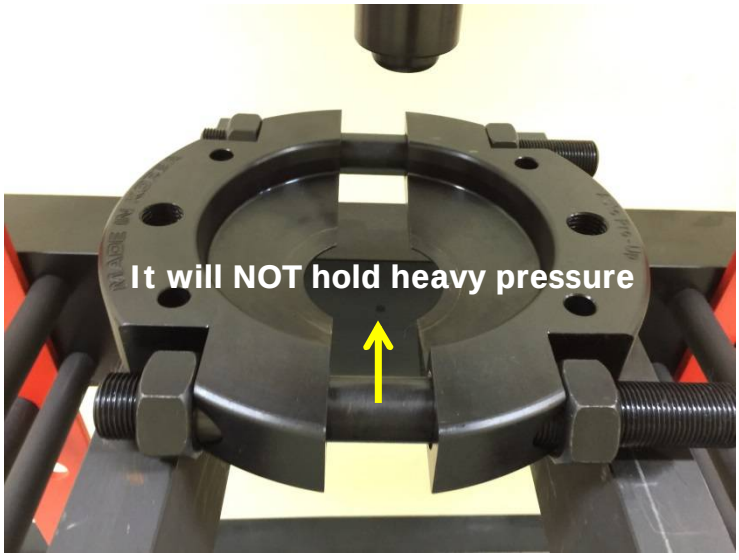
1. Loosen the Separator Jaw Nuts sufficiently to allow the jaws to catch each bearing housing.

2. Tighten Nuts until the jaws are securely set between the bearing housings. **CAUTION!** Overtightening Separator Jaw Nuts may damage bearings.





GOOD



BAD

IMPORTANT: PLACE BEARING SEPARATOR SCREW ON THE ARBOR PLATE VERTICALLY

Press Apron (Cradle) Height Adjustment

Press Apron (also known as Hub Cradle) can be moved up and down either manually (PS-500/PS-

1000) or using the hand winch (PS-1500/PS-2000)

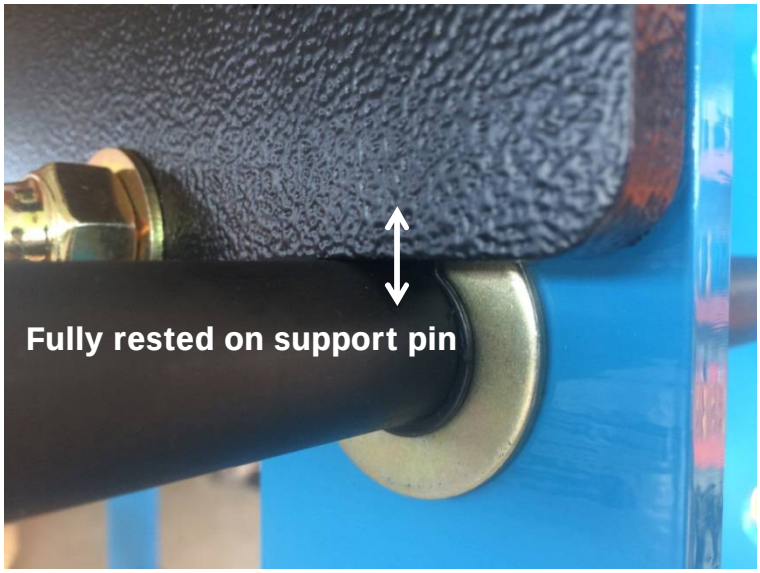
It is important to have Press Apron to directly rest on two Support Pins.

1. Use the Support Pins to adjust the height of the Press Apron.

2. Position the Press Apron as high as possible while positioning the workpiece as close as possible to the piston rod.

3. Place the workpiece on the Arbor Plates so that it is directly under the piston rod.

4. Close the protective cage for safety.



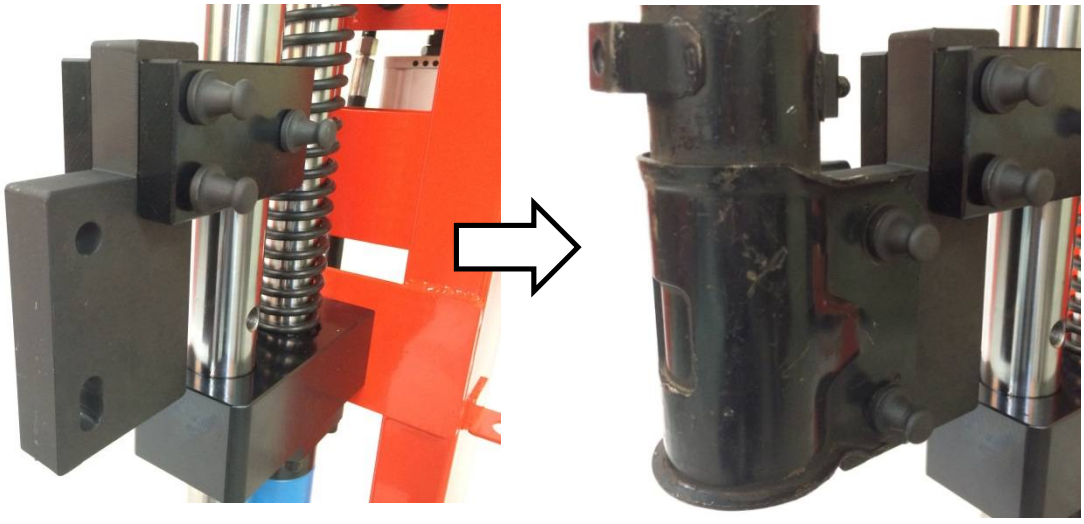
PS-1000/1500/2000

PS-500

COMPRESSOR, PS20

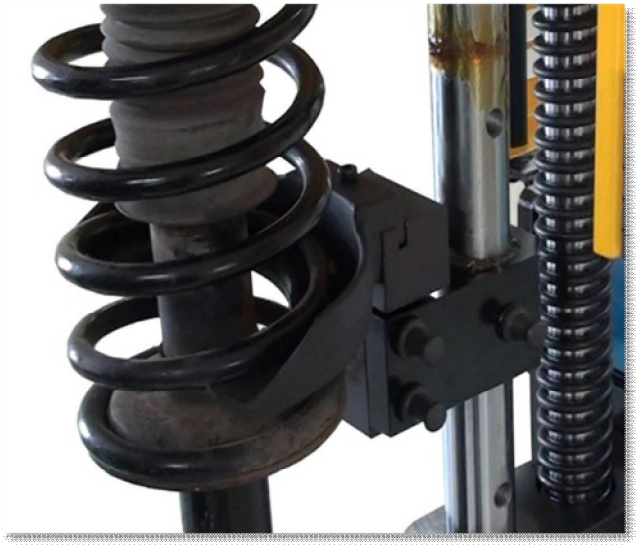
Hex Socket Bolt

MUST be tight

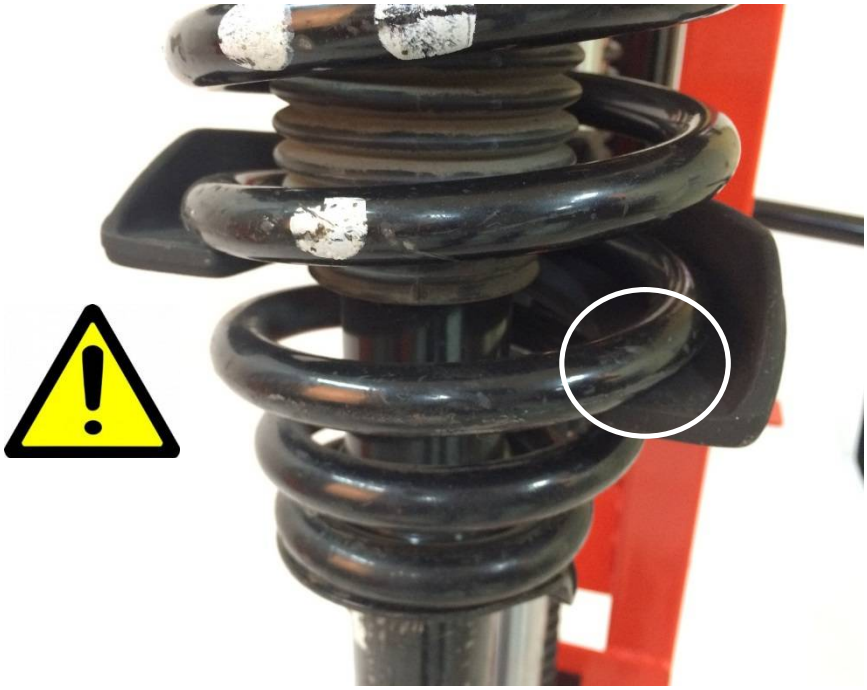


Each shipment includes two (2) different mount adapters. One is used for holding the shoe mount and the other is used for holding the bottom of the strut assembly.

Select the correct shoe mount and position strut assembly on the shoe as shown on the picture above.



Mount the strut correctly



Position Top Spring Arms as near the top of the strut assembly as possible and make sure to secure the spring with claws of spring clasp. Ensure that the strut assembly is set up vertically, and the spring is clasped centrally and evenly.

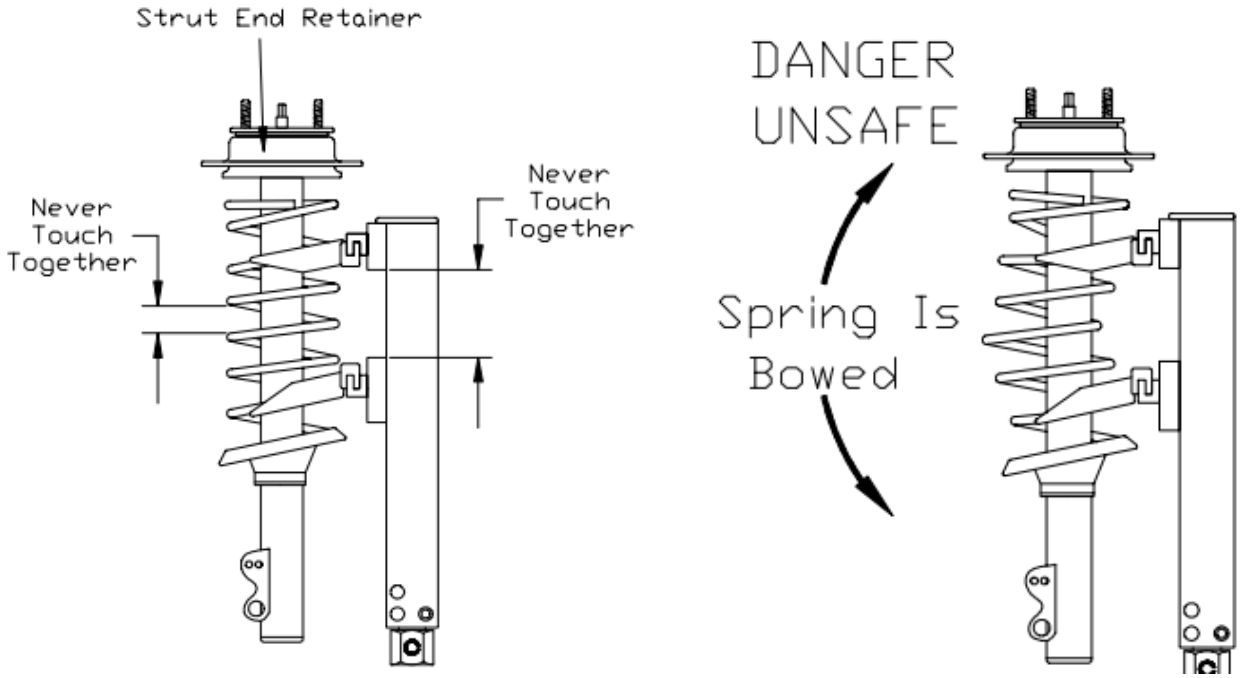
Pay particular attention when selecting the Shoe Mount. Spring MUST fully nest on the Shoe. If Shoe is too large, the strut can be slipped or tilted due to a heavy downward-travel pressure.

With the strut assembly properly positioned, compress spring until the bottom coil of spring is free of the lower spring seat. COMPRESS SPRING ONLY FAR ENOUGH TO RELIEVE PRESSURE ON THE STRUT END RETAINER!

Top Holding Arms Adjustment

When holding the spring, two (2) top holding arms need to be properly adjusted for perfect fit.

It is VERY important to position top holding arms correctly before compressing the spring



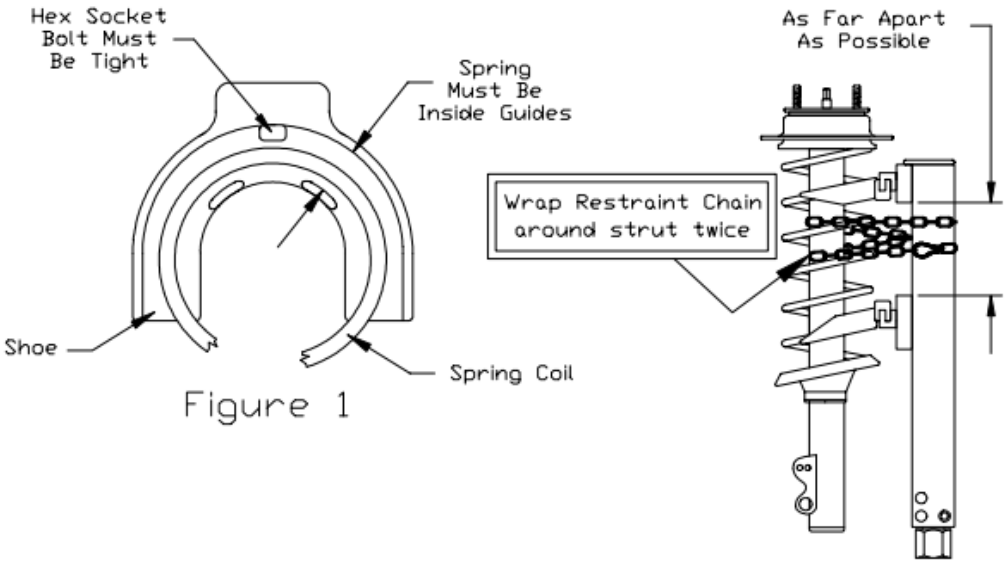


Figure 1

NOTE: Try to

Turn the ball valve clockwise as shown on the above picture to engage Air Pump for the strut spring compressor. With the strut assembly properly positioned, pump the foot pedal to compress spring. Compress spring only enough to relieve pressure on the strut end retainer. **DO NOT** over compress the spring.

Support Plate

PS2000 comes with built-in strut support plate. It is used for holding weight of the strut TEMPORARILY when positioning the strut to the mount adapter.

Before compressing the spring, make sure to keep support plate **AWAY** from the bottom of strut assembly

- Do NOT overload or serious injury may result.
- Do NOT compress spring until coils touch or bind.
- Always use the Restraint Chain.
- A compressed spring is VERY DANGEROUS. Make sure the safety shield is fully closed.

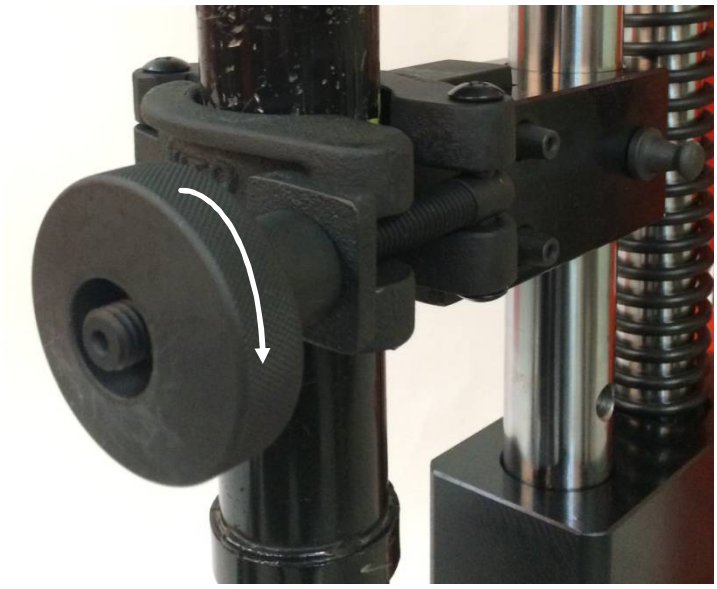
Restraint Chain & Safety Shield

ALWAYS Wrap Restraint Chain around the Spring Compressor and strut as shown on below photos. Adjust the chain ends and close the safety shield cover

ALWAYS close safety shield cover before compressing and NEVER stand in front of strut assembly

Universal Strut Holder (OPTIONAL ITEM)

Universal Strut Holder can be purchased separately. It is an alternative holder which is used for clamping lower part (strut neck) of the strut assembly.



To clamp the strut assembly, position the strut as shown on above picture and turn the large wheel-dial clockwise to secure the strut assembly.

Max. Spring Compression Capacity	**900kg (1,984 LBS)**
Max. Spring Compression Range	**25cm (10”)**
Max. Spring Width	**20cm (7.87”)**
Max. Spring Width on Large Shoe	**19.5cm (7.67”)**
Recommended Pounding Pressure Limit	**100~250kg (220~550 lb)**
Recommended Spring Compress Distance	**15cm (6”)**

INCLUDED INTERLOCKING TOOLS

PS500/PS1000

PS-1500

PS-2000

12 Months Warranty

Proof of Purchase Date Required