


**BVA**  
 HYDRAULICS

# Shop Presses Instruction Manual

**MODELS: IAP5506, IEP5506, IMP5506, IAP5513, IEP5513, IEPD5513,  
IEP10010, IAP10010, IEPD10010 & IEPDS10010**

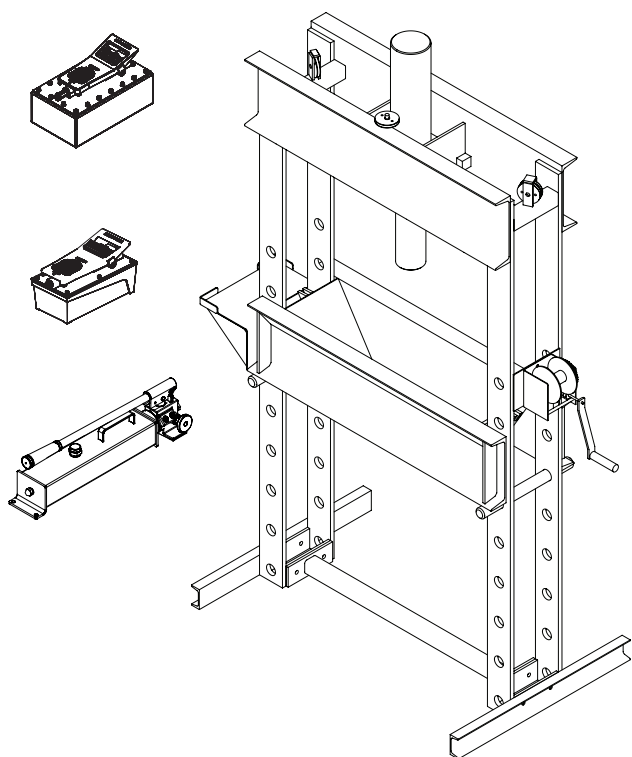
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**Max. Operating Pressure 10,000 PSI**



Models IAP5506, IEP5506, IMP5506,  
IAP5513, IEP5513 & IEPD5513



Models IEP10010, IAP10010, IEPD10010 &  
IEPDS10010



*This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.*

## SAFETY AND GENERAL INFORMATION

**Save these instructions.** For your safety, read and understand the information contained within. The owner and operator shall have an understanding of this product and safe operating procedures before attempting to use this product. Instructions and safety information shall be conveyed in operator's native language before use of this product is authorized. Make certain that the operator thoroughly understands the inherent dangers associated with the use and misuse of the product. If any doubt exists as to the safe and proper use of this product as outlined in this factory authorized manual, remove from service immediately.

**Inspect before each use.** Do not use if broken, bent, cracked or otherwise damaged parts are noted. If any component of this product has been or suspected to have been subjected to a shock load (a load dropped suddenly, unexpectedly upon it), discontinue use until checked out by a BVA Hydraulics Authorized Service Center. Owners and operators of this equipment shall be aware that the use and subsequent repair of this equipment may require special training and knowledge. It is recommended that an annual inspection be done by qualified personnel and that any missing or damaged parts, decals, warning / safety labels or signs be replaced with factory authorized replacement parts only. Any component of this Equipment that appears to be damaged in any way, is worn or operates abnormally shall be removed from service immediately until such time as it can be repaired/replaced. Labels and Instruction Manuals are available from manufacturer.

## PRODUCT DESCRIPTION

BVA Hydraulics Shop presses are designed for automotive, truck, implement, fleet, and industrial repair shops where pressing, bending, straightening, forming, holding is required. Each press includes a cylinder, an electric pump with pendant switch, a winch assembly which provides safe and fast way to raise and lower the bed frame, and a pressure gauge which provides for monitoring the applied press force.

Typical applications include installation and removal of alternator and power steering pump bearings, axle bearings, transmission bearings, seal, driveshaft bearings and u-joints and others. It is not intended for use as an assembly table or as fixture stand used to secure a large, final assembly component. Please refer to Cylinder and Pump manuals for more information.

 **WARNING:** *To reduce the risk of personal injury and/or property damage, ensure that the rated working pressure of each pressurized attachment be equal to or greater than the rated working pressure developed by the hydraulic pump.*

**NOTICE:** *The power retract feature of the IEPD5513, IEPD10010 & IEPDS10010 Shop Presses is not intended to be used under load. Never pull or raise a workpiece with the power retract feature.*



## WARNING

- Study, understand, and follow all instructions provided with and on this device before use.
- Do not exceed rated capacity.
- Prior to use, make sure press is securely anchored.
- The press shall be installed and operated in accordance with federal (OSHA), state and local safety standards.
- Operators and observers shall wear eye protection that meets ANSI Z87.1 and OSHA standards.
- Keep hands, arms, feet and legs out of the work area. Accidental slippage can result in personal injury.
- Use appropriate guarding to contain any pieces that may break or fly apart when applying force.
- Use only press accessories having a capacity rating equal to or greater than the capacity of the press.
- Verify lift cables are slack before pressing on the bolster.
- Avoid off-center loads.
- No alterations shall be made to the product.
- Failure to heed and understand these instructions and markings may result in personal injury, property damage or both.

## BEFORE USE

1. Inspect before each use. Do not use if bent, broken or cracked components are noted. Check for and tighten any loose assemblies.
2. Verify that the product and the application are compatible, if in doubt call BVA Technical Service.
3. Before using this product, read the operator's manual completely and familiarize yourself thoroughly with the product, its components and recognize the potential hazards associated with its use.

## SPECIFICATIONS

| Press Model | Rated Capacity | Cylinder Model | Pump Model/Type      | Press Bed Depth | Press Bed Width | Press Size (H" x W" x L") | Min. Work Height (in.) | Max. Work Height (in.) |
|-------------|----------------|----------------|----------------------|-----------------|-----------------|---------------------------|------------------------|------------------------|
| IMP5506     | 55 Ton         | H5506          | P2001/manual         | 14-7/8"         | 35-1/2"         | 79-1/8 x 56 x 30          | 14                     | 55-1/2                 |
| IAP5506     |                |                | PA2000/air-hydraulic |                 |                 |                           |                        |                        |
| IEP5506     |                |                | PEW0501T/electric    |                 |                 |                           |                        |                        |
| IAP5513     |                | H5513          | PA3801/air-hydraulic |                 |                 |                           |                        |                        |
| IEP5513     |                |                | PEW0501T/electric    |                 |                 |                           |                        |                        |
| IEPD5513    |                | HD5513         | PEWM0501T/electric   |                 |                 |                           |                        |                        |
| IAP10010    | 100 Ton        | H10010         | PA7550               | 16-1/4"         | 35-3/8"         | 89-1/2 x 63 x 30          | 11-1/4                 | 52                     |
| IEP10010    |                |                | PEW1002T/electric    |                 |                 |                           |                        |                        |
| IEPD10010   |                | HD10010        | PEWM1002T/electric   |                 |                 |                           |                        |                        |
| IEPDS10010  |                |                | PESML1002T/electric  |                 |                 |                           |                        |                        |

### Cylinder

| Cylinder Model | Rated Capacity (ton) | Stroke (in.) | Effective Area (in³) | Oil Vol-<br>ume (in³) | Min Height (in.) | Max Height (in.) | Outer Dia. (in.) | Ram Dia. (in.) | Saddle Dia. (in.) | Collar Thread (in.) | Collar Thread Length (in.) |
|----------------|----------------------|--------------|----------------------|-----------------------|------------------|------------------|------------------|----------------|-------------------|---------------------|----------------------------|
| H5506          | 55                   | 6.22         | 10.99                | 68.34                 | 11.14            | 17.36            | 5                | 3.15           | 2.76              | 5"-12               | 2.17                       |
| H5513          |                      | 13.27        |                      | 145.77                | 18.15            | 31.42            |                  | 3.74           |                   |                     |                            |
| HD5513         |                      | 13.19        |                      | 144.94                | 20.04            | 33.23            |                  |                |                   |                     |                            |
| H10010         | 100                  | 10.24        | 20.57                | 210.6                 | 17.68            | 27.93            | 6.97             | 4.13           | 2.95              | 6-7/8"-12           | 1.73                       |
| HD10010        |                      | 10.13        |                      | 208.3                 |                  | 27.80            |                  | 3.74           |                   |                     |                            |

### Manual Pump (Hand pump)

| Hand Pump Model | Usable Oil Volume (in <sup>3</sup> ) | Pressure Rating (psi) |           | Oil Displacement (in <sup>3</sup> ) |           | Oil Outlet Port Thread | Weight (lbs) |
|-----------------|--------------------------------------|-----------------------|-----------|-------------------------------------|-----------|------------------------|--------------|
|                 |                                      | 1st Stage             | 2nd Stage | 1st Stage                           | 2nd Stage |                        |              |
| P2001           | 122                                  | 200                   | 10,000    | 0.81                                | 0.14      | 3/8"-18 NPTF           | 24           |

### Air Pump

| Air Pump Model | Usable Oil Volume (in <sup>3</sup> ) | Pressure Rating (psi) | Oil Output Flow Rate (in <sup>3</sup> /min) |      | Input Air Pressure Range (psi) | Weight (lbs) |
|----------------|--------------------------------------|-----------------------|---------------------------------------------|------|--------------------------------|--------------|
|                |                                      |                       | No Load                                     | Load |                                |              |
| PA1500         | 91.5                                 | 10,000                | 65                                          | 11   | 90-175                         | 18           |
| PA3801         | 232                                  |                       |                                             |      |                                | 27           |
| PA7550         | 460.6                                |                       |                                             |      |                                | 36           |

### Electric Pump

| Electric Pump Model | Reservoir Capacity (gal) | Pressure Rating (psi) |           | Oil Output Flow Rate (in <sup>3</sup> /min) |           | Valve Type   | Motor Size (hp) | Current Draw (A) | Motor Voltage (V) | Weight (lbs) |
|---------------------|--------------------------|-----------------------|-----------|---------------------------------------------|-----------|--------------|-----------------|------------------|-------------------|--------------|
|                     |                          | 1st Stage             | 2nd Stage | 1st Stage                                   | 2nd Stage |              |                 |                  |                   |              |
| PEW0501T            | 1                        | 350                   | 10,000    | 293                                         | 18        | 3-way, 3-pos | 0.5             | 9                | 115/125           | 60           |
| PEWM0501T           |                          |                       |           |                                             |           | 4-way, 3-pos |                 |                  |                   |              |

## Electric Pump (con't)

|            |   |     |        |     |    |                 |   |    |         |    |
|------------|---|-----|--------|-----|----|-----------------|---|----|---------|----|
| PEW1002T   | 2 | 700 | 10,000 | 397 | 37 | 3-way,<br>3-pos | 1 | 12 | 115/125 | 71 |
| PEWM1002T  |   |     |        |     |    | 4-way,<br>3-pos |   |    |         |    |
| PESML1002T |   |     |        | 311 |    |                 |   |    |         | 73 |

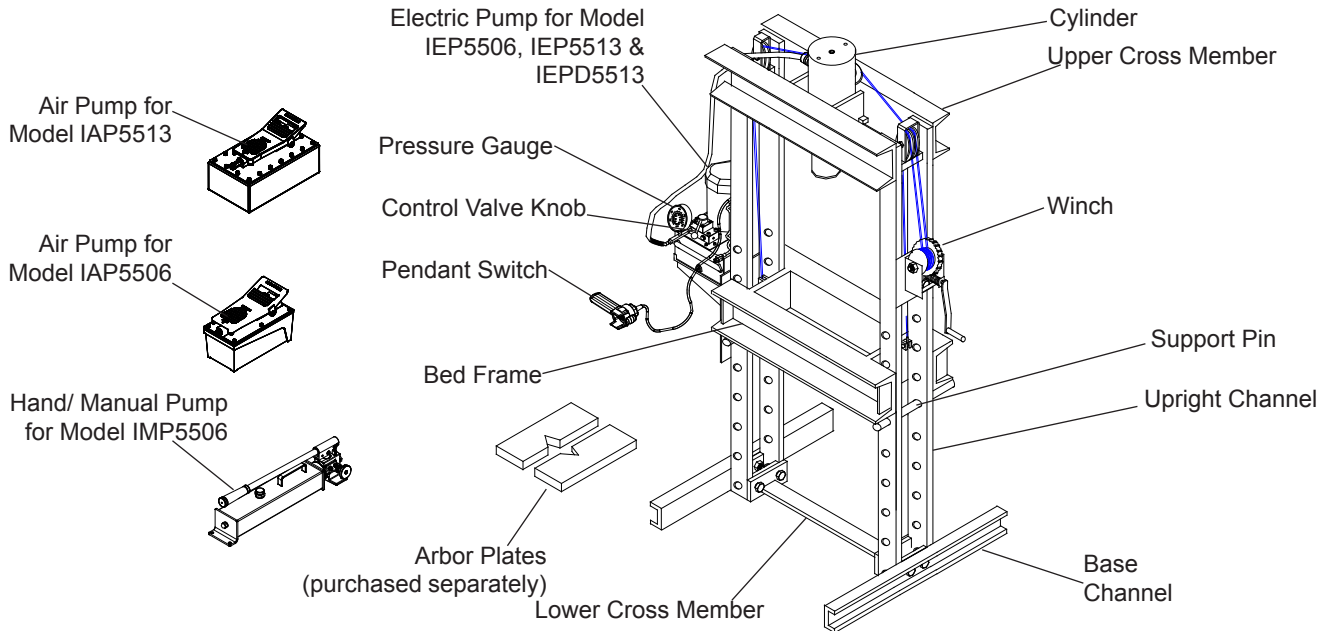


Figure 1 - Components for 55 Ton Press.

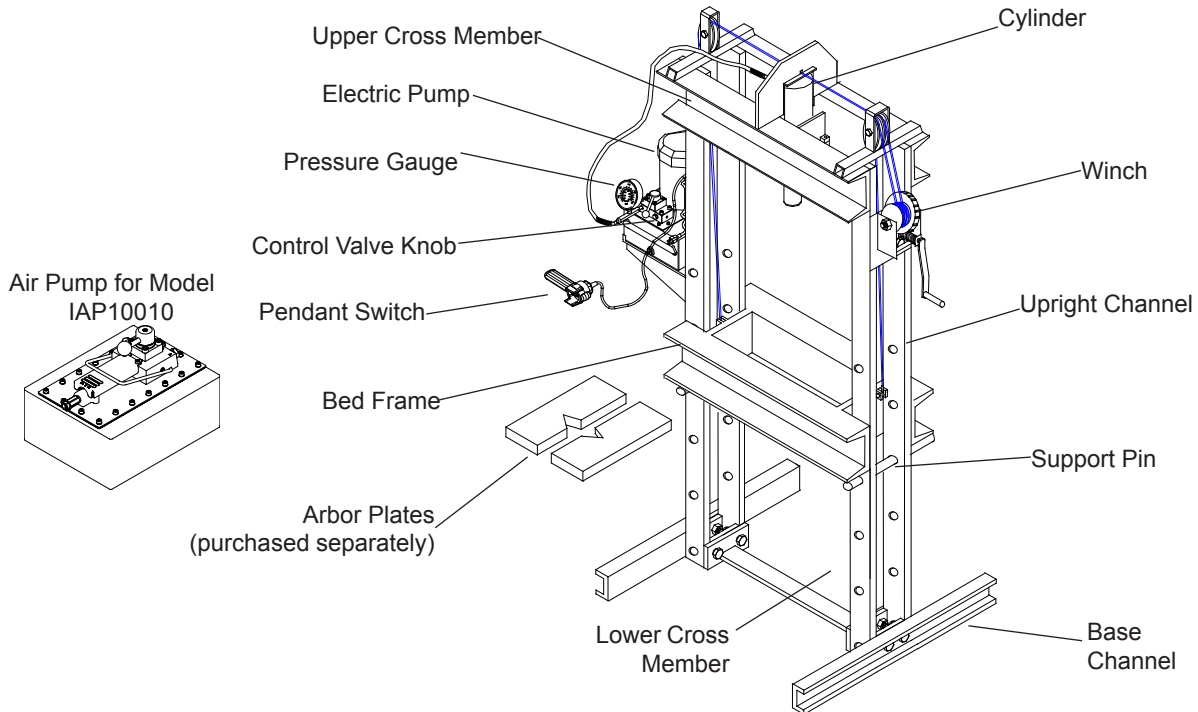


Figure 2 - Components for 100 Ton Press (Model IEP10010)

## ASSEMBLY

1. Ensure bed frame at lowest position and winch cable is slack.
2. Install the winch assembly to the press using 3 bolts, washers and nuts (ref. Figs 2 & 3).
3. Secure cylinder to cylinder adapter plate, and mount the adapter plate to upper cross member using 4 bolts and washers.

**NOTICE:** *The cylinder comes with carrying handles, simply loosen the Allen head socket screw to remove the handles.*

4. Attach base sections to upright channels with 4 bolts and nuts.
5. Attach lower cross member to upright channels with 4 bolts and nuts.
6. *For 55 Ton Models only:* adjust the pump bracket to desired height and secure with bolts, nuts & washers provided.
7. Connect pressure gauge and hydraulic hose to the gauge adapter, then connect the gauge adapter to pump.
8. *For Models IEPD5513, IEPD10010 & IEPDS10010 only:* Attach second hose to Port B on Control Valve. Attach second coupler to free hose end. Connect coupler to bottom port on Cylinder.

**NOTICE:** *Ensure thread tape or compound is used on connections.*

8. Place the pump on the pump bracket and connect the other end of hydraulic hose to cylinder.

 **CAUTION:** *Before disassembling, slide bed frame section down to its lowest position.*

## OPERATION

 **WARNING:** *Shop presses can present a projectile hazard. Ensure workpiece is center loaded and secure. Reduce risk of flying debris by following all operating instructions. Know your press and hazards associated with its use. Keep hands and feet from bed area at all times.*

 **WARNING:** *Risk of serious eye injury from projected or blown debris. Reduce risk by wearing safety goggles when working with or around press.*

1. Insert the support pins to desired height, then lower the bed frame using the winch until the cable is slack and the bed frame is resting fully on the support pins.
2. Place arbor plates on the bed frame (optional).
3. Place workpiece on bed frame, using every precaution necessary to ensure your safety and prevent property damage.
4. Operate the pump:
  - a) *For Model IMP5506 (manual):* Close the release valve by turning it clockwise, and pump the handle to extend the cylinder ram. To retract, simply open the release valve of pump.
  - b) *For Models IAP5506, IAP5513 & IAP10010 (air):* Connect to suitable air supply, press on the foot pedal to extend the cylinder ram. To retract, simply press the release valve by stepping on the raised, stirrup shaped portion of the foot pedal.
  - c) *For Models IEP5506, IEP5513, IEPD5513, IEP10010, IEPD10010 & IEPDS10010 (electric):* Toggle the ON/OFF switch to start the electric pump and let the pump idle for a few minutes before putting into operation. Use control valve knob to extend or retract the cylinder ram.

 **WARNING:** *Burst hazard exists if hose or connection pressure exceeds rated pressure. Always monitor the pressure gauge while in operation and never leave loaded press unattended.*

**NOTICE:** *The power retract feature of the IEPD5513, IEPD10010 & IEPDS10010 Shop Presses is not intended to be used under load. Never pull or raise a workpiece with the power retract feature.*

**NOTICE:** *Never operate pump with hose disconnected from cylinder. If operated in this condition, the hydraulic hose and connections become pressurized. This increases burst hazard.*

5. Apply load to workpiece. **Do not overload the workpiece.**
6. Stabilize workpiece in a manner which will not allow it to inadvertently fall from the bed once the load is removed.
7. Once cylinder has fully retracted, remove workpiece.

**NOTICE:** *To protect your cylinder, do not continue to operate pump after cylinder plunger is fully extended or retracted.*

## MAINTENANCE

Please refer to cylinder and pump's manuals for maintenance and how to add/change hydraulic oil. For best results, change the oil once a year. Use only good quality hydraulic oil. Mobil DTE13M or equivalent is recommended for manual and air pumps, BVA hydraulic oil or equivalent for electric pump.

### Lubrication

A periodic coating of light lubricating oil to pivot points and hinges will help to prevent rust and assure assemblies move freely.

### Storage

Depressurize the hydraulic system, disconnect the hydraulic hose and lower the bed frame to lowest position. Disconnect both hoses on the IEPD5513, IEPD10010 & IEPDS10010 Double Acting Shop Presses.

## TROUBLESHOOTING

A system failure may or may not be the result of a pump malfunction. The following information is intended to be used as an aid in determining if a problem exist.

| Symptom                                                                                        | Possible Causes                                                                                                                                                                                                                                   | Corrective Action                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Erratic Ram Performance                                                                        | <ul style="list-style-type: none"> <li>• Air in system or pump cavitation</li> <li>• External leak</li> <li>• Internal hydraulic leak</li> </ul>                                                                                                  | <ul style="list-style-type: none"> <li>• Follow pump instructions for bleeding air</li> <li>• Tighten all connections</li> <li>• Contact Service Center</li> </ul>                                                                                                                                                     |
| Pump or ram fails to maintain pressure                                                         | <ul style="list-style-type: none"> <li>• Overload condition</li> <li>• External leak</li> <li>• Internal hydraulic leak</li> <li>• Ram seals leaking</li> <li>• Pump or valve malfunctioning</li> </ul>                                           | <ul style="list-style-type: none"> <li>• Remedy overload condition</li> <li>• Tighten all connections</li> <li>• Contact Service Center</li> <li>• Contact Service Center</li> <li>• Check pump operating instructions</li> </ul>                                                                                      |
| Ram extends partially                                                                          | <ul style="list-style-type: none"> <li>• Hydraulic oil level too low in pump</li> <li>• Load is above the capacity of system</li> <li>• Ram is sticking or binding</li> </ul>                                                                     | <ul style="list-style-type: none"> <li>• Fill and bleed the system</li> <li>• Match the capacity to application</li> <li>• Contact Service Center</li> </ul>                                                                                                                                                           |
| Slow ram movement                                                                              | <ul style="list-style-type: none"> <li>• Loose connection or coupler</li> <li>• Restricted hydraulic line or fitting</li> <li>• Pump not working correctly</li> <li>• Ram seals leaking</li> </ul>                                                | <ul style="list-style-type: none"> <li>• Tighten connection or coupler</li> <li>• Clean and replace if damaged</li> <li>• Check pump operating instructions</li> <li>• Replace cylinder</li> </ul>                                                                                                                     |
| Ram leaks hydraulic fluid                                                                      | <ul style="list-style-type: none"> <li>• Worn or damaged seals</li> </ul>                                                                                                                                                                         | <ul style="list-style-type: none"> <li>• Contact Service Center</li> </ul>                                                                                                                                                                                                                                             |
| Ram will not retract or retracts slower than normal                                            | <ul style="list-style-type: none"> <li>• Linkage binding</li> <li>• Loose couplers</li> <li>• Malfunctioning coupler</li> <li>• Weak or broken retraction springs</li> <li>• Ram damaged internally</li> <li>• Pump reservoir too full</li> </ul> | <ul style="list-style-type: none"> <li>• Lubricate all moving parts</li> <li>• Tighten couplers</li> <li>• Depressurize pump and hose, remove application, then replace a new coupler</li> <li>• Contact Service Center</li> <li>• Contact Service Center</li> <li>• Drain hydraulic fluid to correct level</li> </ul> |
| Motor will not start (for Model IEP5506, IEP5513, IEPD5513, IEP10010, IEPD10010, & IEPDS10010) | <ul style="list-style-type: none"> <li>• No power or wrong voltage</li> <li>• Damaged power cord</li> <li>• Tripped circuit breaker</li> <li>• Loose or faulty wiring</li> </ul>                                                                  | <ul style="list-style-type: none"> <li>• Check the power supply &amp; voltage</li> <li>• Contact Customer Service</li> <li>• Make sure breaker is of adequate size</li> <li>• Contact Customer Service</li> </ul>                                                                                                      |
| Motor cuts out (for Model IEP5506, IEP5513, IEPD5513, IEP10010, IEPD10010 & IEPDS10010)        | <ul style="list-style-type: none"> <li>• Extension cord too long</li> <li>• Faulty motor</li> <li>• Overheated motor can trip circuit breaker</li> </ul>                                                                                          | <ul style="list-style-type: none"> <li>• Replace with shorter cord</li> <li>• Replace or repair</li> <li>• Allow motor to cool, reset circuit breaker</li> </ul>                                                                                                                                                       |



## Shop Press Service Parts

**INCLUDES MODELS: IAP5506, IEP5506, IMP5506, IAP5513, IEP5513 & IEPD5513**

SFA Companies 10939 N. Pomona Ave. Kansas City, MO 64153  
Tel: 888-332-6419 \* Fax: 816-891-6599  
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**Note:** Not all components of the press are replacement items, but are illustrated as a convenient reference of location and position in the assembly sequence.

### Parts Illustration

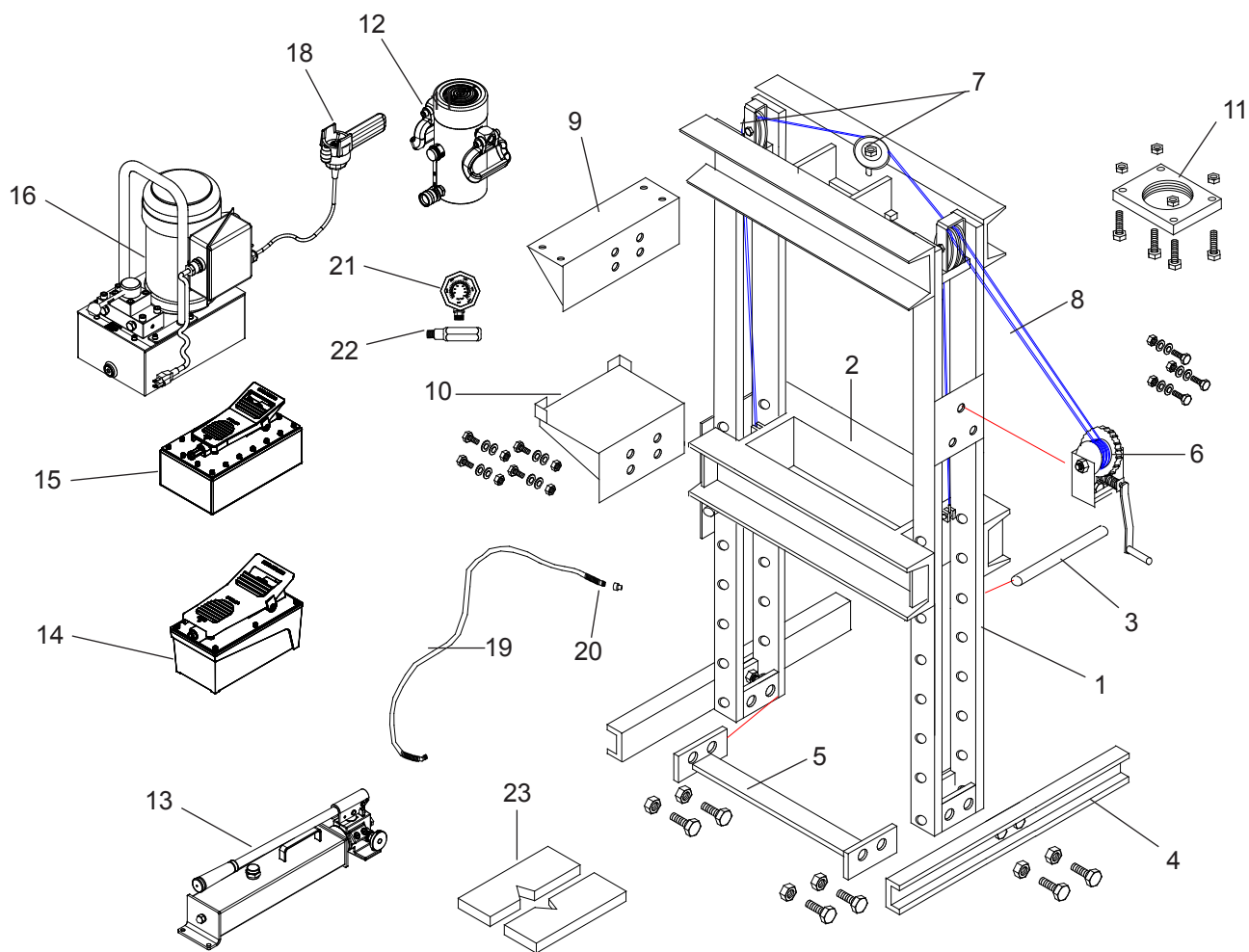


Figure 3- Replacement Parts Illustration for Models IAP 5506, IEP5506, IMP5506, IAP5513, IEP5513 & IEPD5513



## Shop Presses Service Parts

**MODELS: IMP5506, IAP5506, IEP5506, IAP5513, IEP5513 & IEPD5513**

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**Note:** Not all components of the press are replacement items, but are illustrated as a convenient reference of location and position in the assembly sequence.

### Parts List

| Item | Part No. for Model |             |         |          |         |           | Description                               | Qty |
|------|--------------------|-------------|---------|----------|---------|-----------|-------------------------------------------|-----|
|      | IMP5506            | IAP5506     | IAP5513 | IEP5506  | IEP5513 | IEPD5513  |                                           |     |
| 1    | N/A                |             |         |          |         |           | Press Frame w/Winch and Pump Brackets     | 1   |
| 2    | N/A                |             |         |          |         |           | Bed Frame                                 | 1   |
| 3    | 400-002-003        |             |         |          |         |           | Support Pin                               | 2   |
| 4    | IEP-001-004        |             |         |          |         |           | Frame Base Channel                        | 2   |
| 5    | IEP-001-005        |             |         |          |         |           | Lower Cross Member                        | 1   |
| 6    | 400-002-006        |             |         |          |         |           | Winch                                     | 1   |
| 7    | 400-002-007        |             |         |          |         |           | Cable Sheaves (Pulley)                    | 3   |
| 8    | 400-002-008        |             |         |          |         |           | Cable                                     | 2   |
| 9    | IEP-001-009        | N/A         |         |          |         |           | Hand Pump Platform Bracket                | 1   |
| 10   | N/A                | IEP-001-011 |         |          |         |           | Air/Electric Pump Bracket                 | 1   |
| 11   | IEP-002-012        |             |         |          |         |           | Cylinder Adapter Plate                    | 1   |
| 12a  | H5506              |             | N/A     | H5506    | N/A     |           | Single Acting Cylinder, 55 Ton 6" Stroke  | 1   |
| 12b  | N/A                |             | H5513   | N/A      | H5513   | N/A       | Single Acting Cylinder, 55 Ton 13" Stroke | 1   |
| 12c  | N/A                |             |         |          |         | HD5513    | Double Acting Cylinder, 55 Ton 13" stroke | 1   |
| 13   | P2301              | N/A         |         |          |         |           | Pump, Manual                              | 1   |
| 14   | N/A                | PA1500      | N/A     |          |         |           | Pump, Air, 91.5 in³                       | 1   |
| 15   | N/A                |             | PA3801  | N/A      |         |           | Pump, Air, 232 in³                        | 1   |
| 16   | N/A                |             |         | PEW0501T |         | PEWM0501T | Pump, Electric, 0.5 hp                    | 1   |
| 17   | 300-002-016        | N/A         |         |          |         |           | Pump Mounting Hardware Kit                | 1   |
| 18   | N/A                |             |         | PEW01    |         |           | Pendant Switch                            | 1   |
| 19   | CS3838             | CS3838C     |         | CS3838   |         |           | Hydraulic Hose                            | 1*  |
| 20   | CH38M              |             |         |          |         |           | Male Coupler                              | 1*  |
| 21   | GW4014             |             |         |          |         |           | Pressure Gauge, 4", Wet                   | 1   |
| 22   | CF3814             |             |         |          |         |           | Gauge Adapter                             | 1   |
| 23   | AP55               |             |         |          |         |           | Arbor Plates                              | 1   |

\* Qty 2 for IEPD5513 Double Acting Presses



## Shop Presses Service Parts

**MODEL NUMBER: IAP10010, IEP10010, IEPD10010 & IEPDS10010**

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**Note:** Not all components of the press are replacement items, but are illustrated as a convenient reference of location and position in the assembly sequence.

### Parts Illustration



Figure 4- Replacement Parts Illustration for Models IAP10010, IEP10010, IEPD10010 & IEPDS10010



## Shop Presses Service Parts

**MODELS: IAP10010, IEP10010, IEPD10010 & IEPDS10010**

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**Note:** Not all components of the press are replacement items, but are illustrated as a convenient reference of location and position in the assembly sequence.

### Parts List

| Item | Part No. for Model |          |           |            | Description                                 | Qty |
|------|--------------------|----------|-----------|------------|---------------------------------------------|-----|
|      | IAP10010           | IEP10010 | IEPD10010 | IEPDS10010 |                                             |     |
| 1    | N/A                |          |           |            | Press Frame w/Winch and Pump Bracket        | 1   |
| 2    | N/A                |          |           |            | Bed Frame                                   | 1   |
| 3    | 610-002-003        |          |           |            | Support Pin                                 | 2   |
| 4    | IEP-002-004        |          |           |            | Frame Base Channel                          | 2   |
| 5    | IEP-002-005        |          |           |            | Lower Cross Member                          | 1   |
| 6    | 400-002-006        |          |           |            | Winch                                       | 1   |
| 7    | 400-002-007        |          |           |            | Cable Sheaves (Pulley)                      | 3   |
| 8    | 610-002-008        |          |           |            | Cable                                       | 2   |
| 9    | IEP-002-009        |          |           |            | Cylinder Adapter Plate                      | 1   |
| 10a  | H10010             |          | N/A       |            | Single Acting Cylinder, 100 ton, 10" Stroke | 1   |
| 10b  | N/A                |          | HD10010   |            | Double Acting Cylinder, 100 ton, 10" Stroke | 1   |
| 11a  | PA7550             | N/A      |           |            | Pump, Air, 460.6 in³                        | 1   |
| 11b  | N/A                | PEW1002T | PEWM1002T | PESML1002T | Pump, Electric, 1 hp                        | 1   |
| 12   | N/A                | PEW01    |           | N/A        | Pendant Switch                              | 1   |
| 13   | CS3838C            | CS3838   |           |            | Hydraulic Hose                              | 1*  |
| 14   | CH38M              |          |           |            | Male Coupler                                | 1*  |
| 15   | GW4014             |          |           |            | Pressure Gauge, 4", Wet                     | 1   |
| 16   | CF3814             |          |           |            | Gauge Adapter                               | 1   |
| 17   | AP100              |          |           |            | Arbor Plates                                | 1   |
| 18   | IEP-001-011        |          |           |            | Electric Pump Bracket                       | 1   |

\* Qty 2 for IEPD10010 & IEPDS10010 Double Acting Presses

## LIMITED LIFETIME WARRANTY

BVA Hydraulics®, represented in the United States by **SFA Companies** ["SFA"] warrants this product to be free from defects in material and workmanship for the life of the product as long as the original purchaser owns the product. The warranty is non-transferable and is subject to the terms, exclusions, and limitations described below:

- Damaged components, including but not limited to bent rams, dented or crushed cylinder walls, broken welds or couplers as well as worn out seals, o-rings and springs are the result of misuse and not covered by warranty and BVA Hydraulics will not provide any warranty credit for such damaged components.
- This warranty does not cover ordinary wear and tear, overloading, alterations (including repairs or attempted repairs not performed by BVA Hydraulics or one of its authorized personnel), improper fluid use, or use of the product in any manner for which the product was not intended or the use of which is not in accordance with the instructions or warnings provided with the product.
- In the unlikely event that a BVA Hydraulics product fails due to material defect in workmanship, you may contact SFA Companies for disposition. In such cases, the customer's sole and exclusive remedy for any breach or alleged breach of warranty is limited to the repair or replacement of the defective product.
- Under no circumstances is BVA Hydraulics liable for any consequential or incidental damage or loss whatsoever.
- THIS WARRANTY IS LIMITED TO NEW PRODUCTS SOLD THROUGH AUTHORIZED DISTRIBUTORS AND OTHER CHANNELS DESIGNATED BY BVA HYDRAULICS. NO AGENT, EMPLOYEE OR OTHER REPRESENTATIVE OF BVA HYDRAULICS IS AUTHORIZED TO MODIFY THIS WARRANTY.
- THE FOREGOING IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FOR A FITNESS FOR A PARTICULAR PURPOSE.
- Components not manufactured by BVA Hydraulics including certain motor systems, gasoline engines, and other are not covered by this warranty and instead are covered by the manufacturer's separate manufacturer's warranty provided in the package.
- BVA Hydraulics' liability in all cases is limited to, and will not exceed the purchase price paid for the product.

