



J.H. Williams Tool Group  
6969 Jamesson Road,  
Midland, GA 31820

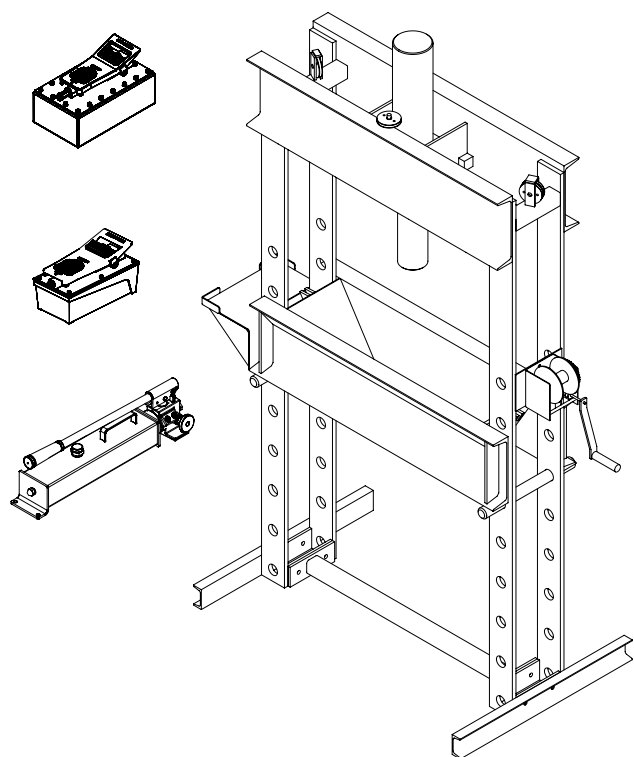
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## OWNER/ OPERATOR MANUAL

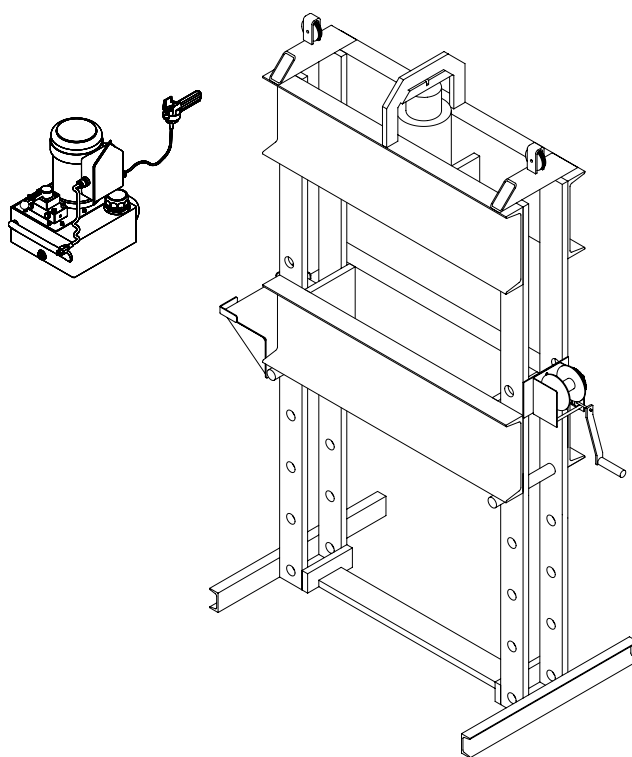
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### Shop Presses

(Max. Operating Pressure 10,000 PSI)



Models 9A55T06, 9E55T06, 9H55T06,  
9A55T13 & 9E55T13



Model 9E100T10



*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 Shop Press 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.)
9H55T06	55 Ton	6C55T06	P2001/manual	14-7/8"	35-1/2"	79-1/8 x 56 x 30	14	55-1/2
9A55T06			5AS200/air-hydraulic					
9E55T06			5E05H1GR/electric					
9A55T13		6C55T13	5AS380/air-hydraulic					
9E55T13			5E05H1GR/electric					
9E100T10	100 Ton	6C100T10	5E10H2GR/electric	16-1/4"	35-3/8"	89-1/2 x 63 x 30	11-1/4	52

### Cylinder

Cylinder Model	Rated Capacity (ton)	Stroke (in.)	Effective Area (in <sup>2</sup> )	Oil Volume (in <sup>3</sup> )	Min Height (in.)	Max Height (in.)	Outer Dia. (in.)	Ram Dia. (in.)	Saddle Dia. (in.)	Collar Thread (in.)	Collar Thread Length (in.)
6C55T06	55	6.22	10.99	68.34	11.14	17.36	5	3.15	2.76	5"-12	2.17
6C55T13		13.27		145.77	18.15	31.42				6-7/8"-12	
6C100T10	100	10.24	20.57	210.6	17.68	27.93	6.97	4.13			

### 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		
5AS150	91.5	10,000	65	11	90-175	18
5AS380	232			11		27

### Electric Pump

Electric Pump Model	Reservoir Capacity (gal)	Pressure Rating (psi)		Oil Output Flow Rate (in³/min)		Valve Type	Motor Size (hp)	Current Draw (A)	Motor Voltage (V)	Weight (lbs)
		1st Stage	2nd Stage	1st Stage	2nd Stage					
5E05H1GR	1	350	10,000	293	18	3-way, 3-pos	0.5	9	115/125	60
5E05H1GR						4-way, 3-pos				
5E10H2GR	2	700	10,000	397	37	3-way 3-pos	1	12		71
5E10H2GR						4-way 3-pos				

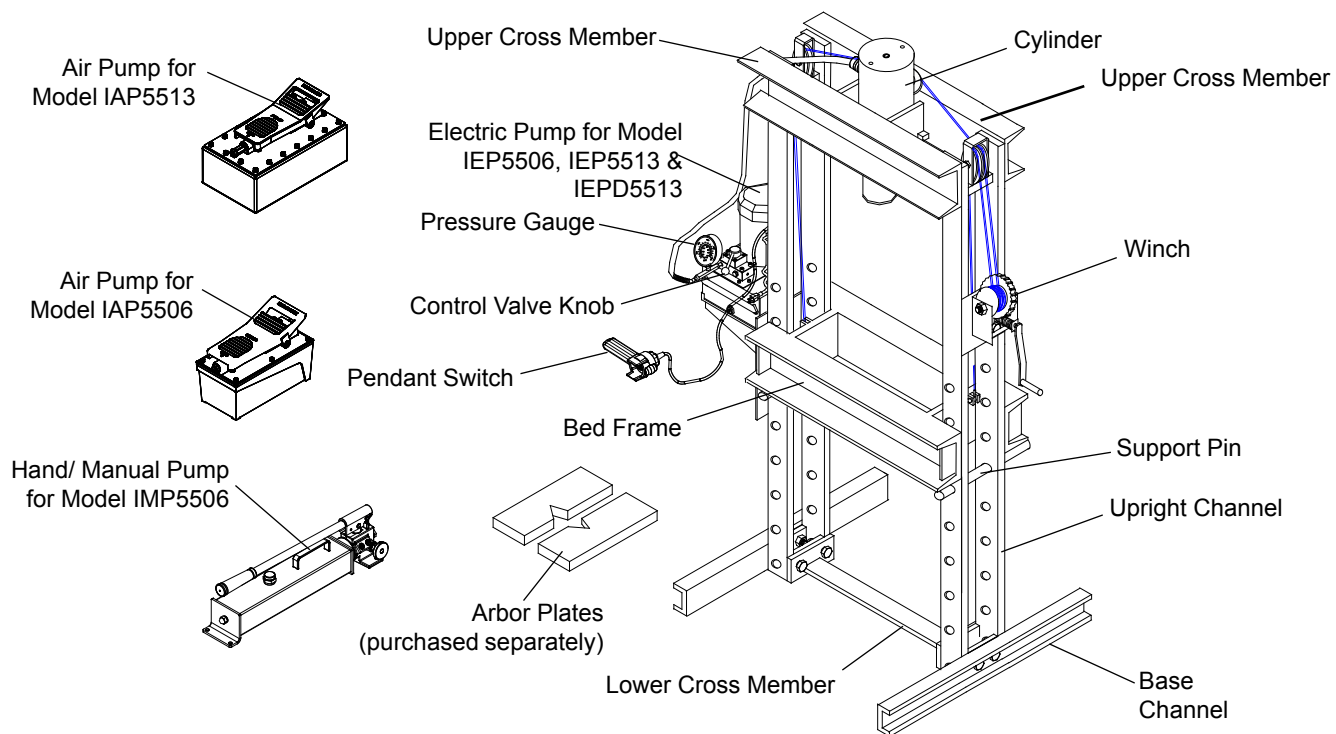


Figure 1 - Components for 55 Ton Press.

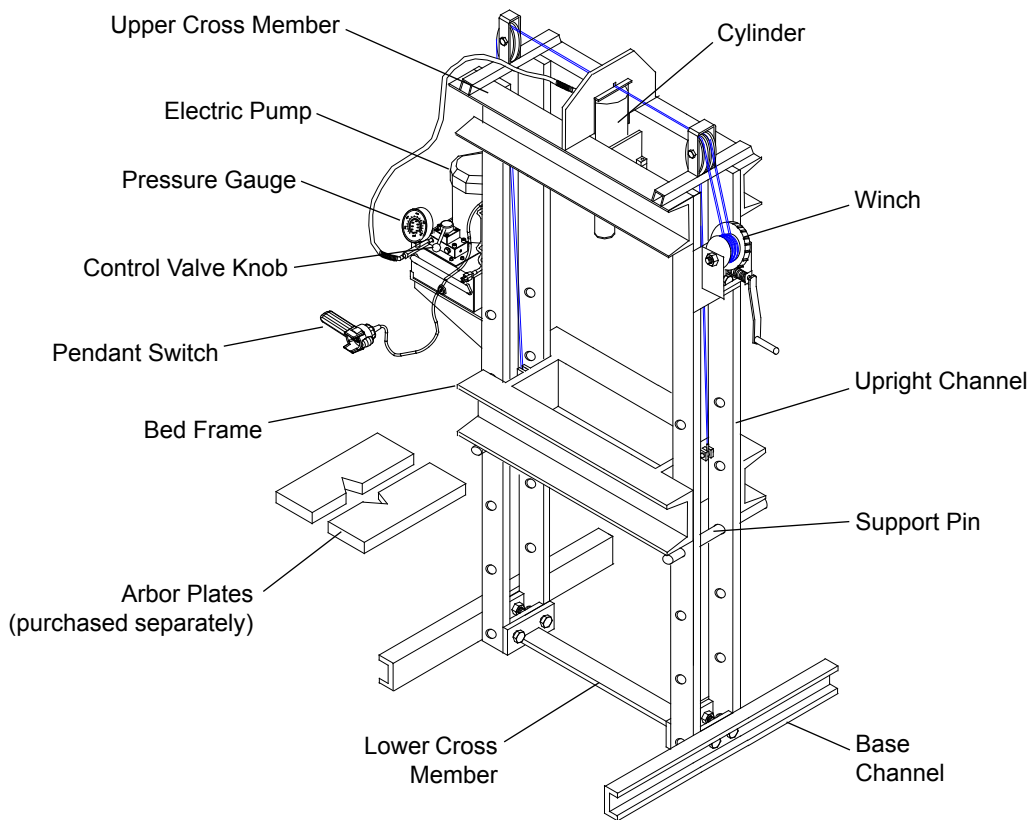


Figure 2 - Components for 100 Ton Press (Model 9E100T10)

## 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.

**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 9H55T06 (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 9A55T06 & 9A55T13(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 9E55T06, 9E55T13 & 9E100T10 (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:** *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.

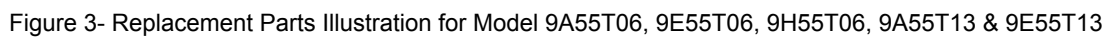
### Storage

Depressurize the hydraulic system, disconnect the hydraulic hose and lower the bed frame to lowest position.

## 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)	<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)	<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>





## Parts List

Item	Part No.		Description	Qty
	55 TON Models	9E100T10		
1a	IEP-002-000	IEP-002-001	Press Frame w/Winch and Pump Brackets	1
1b	IEP-001-010	IEP-002-002	Press Frame only	1
2	IEP-001-002	IEP-002-002	Bed Frame	1
3	400-002-003	610-002-003	Support Pin	2
4	IEP-001-004	IEP-002-004	Frame Base Channel	2
5	IEP-001-005	IEP-002-005	Lower Cross Member	1
6	400-002-006		Winch	1
7	400-002-007		Cable Sheaves (Pulley)	3
8	400-002-008	610-002-008	Cable	2
9	IEP-001-009	N/A	Pump Platform Bracket	1
10	IEP-001-011	N/A	Air/Electric Pump Bracket	1
11	400-002-012	IEP-002-009	Cylinder Adapter Plate	1
12a	6C55T06	N/A	Cylinder, 55 ton, 6" stroke (Models 9A55T13, 9E55T06, 9H55T06)	1
12b	6C55T13	N/A	Cylinder, 55 ton, 13" stroke (Models 9A55T13, 9E55T13)	1
12d	N/A	6C100T10	Cylinder, 100 ton	1
13	P2301	N/A	Pump, Manual (Model 9H55T06)	1
14	5AS150	N/A	Pump, Air, 91.5 in <sup>3</sup> (Model 9A55T06)	1
15	5AS380	N/A	Pump, Air, 232 in <sup>3</sup> (Model 9A55T13)	1
16	5E05H1GR	N/A	Pump, Electric, 0.5 hp	1
17	N/A	5E10H2GR	Pump, Electric, 1 hp	1
18	PEW01		Pump Mounting Hardware Kit	1
19a	CS3838		Hydraulic Hose (Models 9E55T06, 9H55T06, 9E55T13, 9E100T10)	1*
19b	CS3838C	N/A	Hydraulic Hose (Models 9A55T06, 9A55T13)	1
20	CH38M		Male Coupler	1*
21	GW4014		Pressure Gauge, 4", Wet	1
22	CF3814F	CF3814	Gauge Adapter	1
23	AP55	AP100	Arbor Plates	1

## 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.



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6969 Jamesson Road,  
Midland, GA 31820  
1-866-460-7995