



a division of GLBH Group Manufacturing Ltd.

# **Operating Manual**

## **CHLP 5008**

### **Component Handler Low Profile**

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Website: [www.hydra-tech.net](http://www.hydra-tech.net)

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## PLEASE SIGN AFTER THE MANUAL HAS BEEN READ.

The Component Handler and its ancillary tool line is a result of years of research into the needs of industries which must push, pull, press and lift in the course of maintaining machinery.

Safety, durability and user friendly ergonomics are the basis of the design philosophy underlying the Component Handler.

The components and materials used in the manufacture of this equipment are of the highest quality. However, the components of this system are machines and machines must be operated and maintained properly to serve their purpose safely and reliably.

\*\*\* This manual contains important information regarding the operation and maintenance of this equipment. The key material is found on pages 1 through 18.

*The information contained on each of these pages is important. However, the information in **bold letters**, underlined, or otherwise highlighted has to do with safe operation and maintenance of the equipment. Failure to understand it and to follow its direction could lead to serious personal injury, or death.*

Each individual operating this equipment should read the pages noted above and sign a copy of the following certificate.

<p>Please Print</p> <p>Name of Company: _____</p> <p>Name of Employee: _____</p> <p>I certify that I have read the pages noted above and understand their contents. I will operate the equipment in a safe and responsible manner.</p> <p>Signed: _____ Date: _____</p>
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Do not operate, perform maintenance or repairs on this product until the relevant information contained within this document has been read, understood, and the individual taking such action has been deemed competent and approved for operating and/or performing service to the equipment.

Please contact Hydra-Tech International if you have questions or suggestions which could enhance the safe operation of this equipment.

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## **Important Safety Information**

The CHLP5008 Component Handler is specially designed to lift vertically, without side load, to a **maximum capacity of 2,268kg** (5,000 lbs).


To ensure the safe use of this equipment it is the responsibility of the owner and operator that any individual operating this equipment or working in the vicinity of this equipment is deemed to be competent, defined by the region's Safety Codes and Regulations, an example is as follows:

Competent: in relation to a person, means adequately qualified, suitably trained and with sufficient experience to safely perform work without supervision or with only a minimal degree of supervision.

In order for the equipment to perform as designed and safely proper maintenance must be performed periodically. Specific maintenance procedures are discussed in detail on pages 18 through 19.

**Improper operation, maintenance, lubrication and repair of this equipment may result in serious injury or death.**

The CHLP 5008 is a specially designed piece of equipment and as such should NOT be modified in any way.

Hazard warnings are identified by  and/or "DANGER", "CAUTION", "WARNING" labels in an appropriate location to bring attention to the hazard. Failure to heed hazard warning may result in serious personal injury or death.

Some, but not all, warnings, hazards, safety

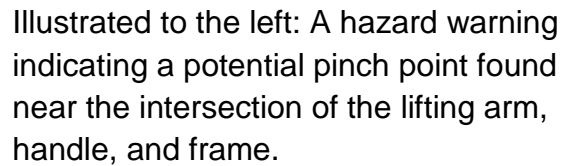
symbols and mechanisms are illustrated on pages 3 through 5.

**Hydra-Tech International is not capable of foreseeing every possible circumstance that may involve a potential hazard. As such, the warnings within this document and labeled on the equipment are not all-inclusive. It is the owner and operator's responsibility to first ensure that any use of this equipment not specifically recommended by Hydra-Tech International, be it operation, maintenance, lubrication or repairs, be deemed safe for the equipment operator, all persons present, and prevent damages to the equipment.**

Information, images, and specifications contained within this document are based on information available at the time it was written or last revised. The contents of this document may change over time and the latest version of this document should be obtained by the owner and/or operator prior to use of the equipment.

For further information or suggestions regarding the safe operation, maintenance and repair of the CHLP 5008 please contact Hydra-Tech International using the following contact information:

6060 – 86<sup>th</sup> Avenue SE  
Calgary, Alberta, Canada T2C 4L7  
Telephone (403) – 720 – 7740  
Fax (403) – 720 – 7758  
Website: <http://www.hydra-tech.net/contactus.html>



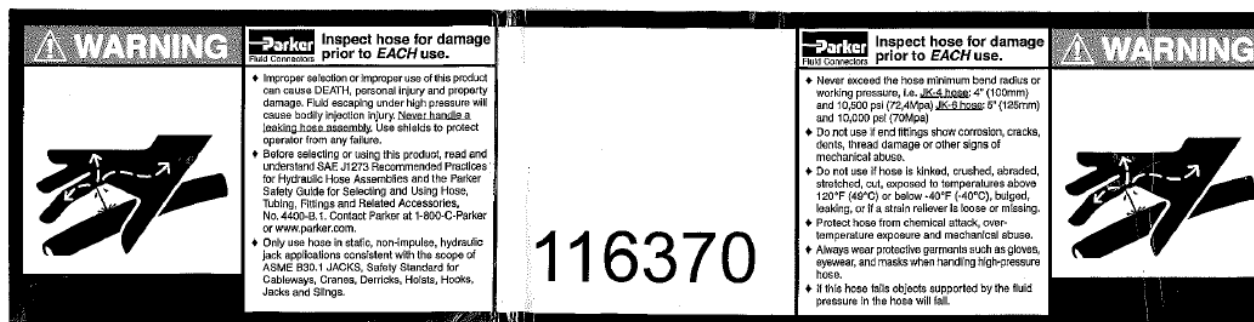
**WARNING**

To help avoid personal injury:

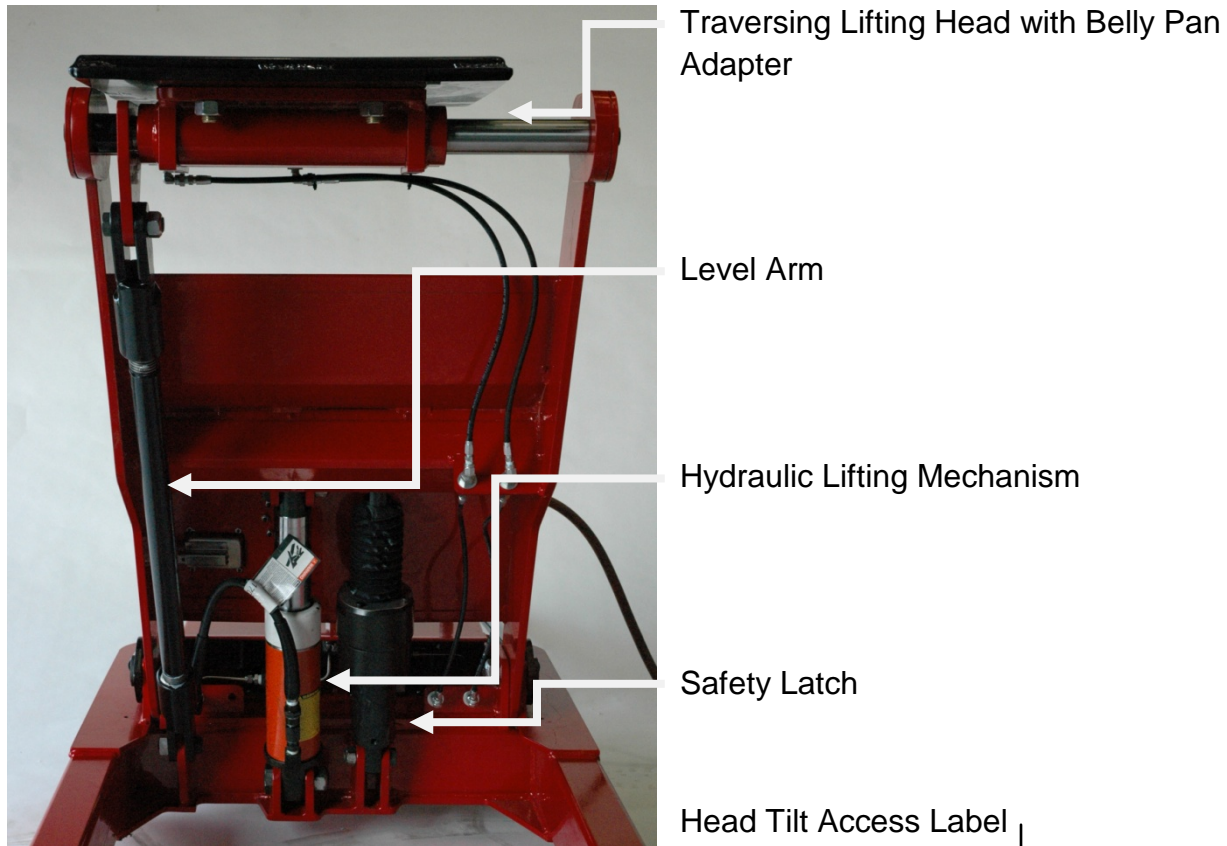
- Use a jack with sufficient capacity to lift the load. ■ The total load, lifted or supported by a jack, must never exceed the rated capacity of the jack. ■ Properly support the jack. ■ Use a friction material under base and between jack and load.
- Center load on jack. ■ Stay clear of lifted loads. ■ Follow lift-lower procedure. ■ Lift only approved weight loads. ■ Do not attempt double-acting jacks. ■ No oil leaks. ■ MUST BE UNRESTRICTED. ■ Do not use jack with torn or damaged components or part threads. ■ Use only approved accessories. ■ Use only approved hydraulic fluid. ■ Safety pump must have control valve to fully stroke jacks. ■ Do not use jacking and A.N.S.I. type 1 safety overloading and do not use jacks if damaged, twisted or in poor repair. ■ User must realize that as safety restraint device will be weakened and replaced in case of accident, becomes evident. **EAS**

This guide cannot cover every situation that may arise while you work with SAFETY PUMPS.

Illustrated below: A sample of the hydraulic hose warning, found on the hydraulic hose and typically most easily viewed through the Head Tilt Access Latch Door.



## Safety, Warning, & Hazard Illustrations Continued



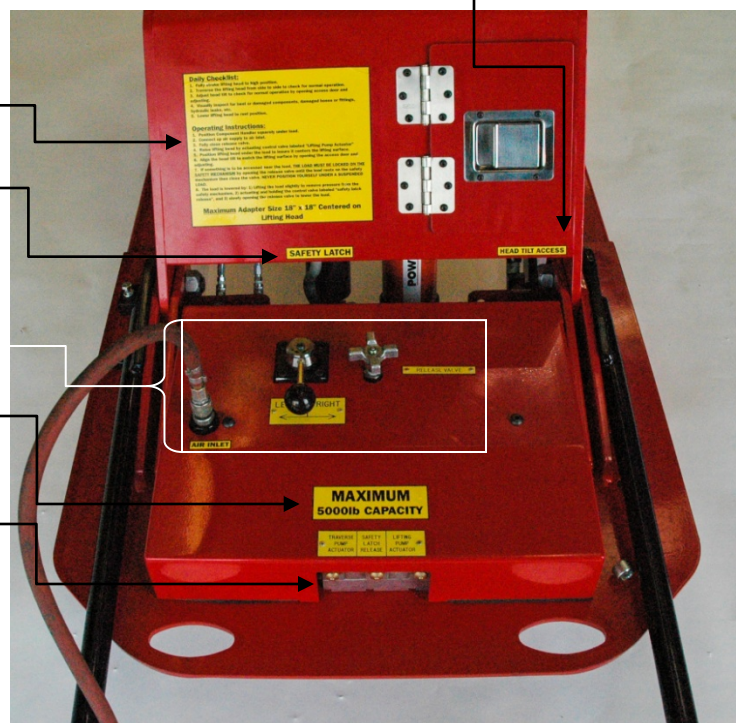
Checklist and operating instructions decal (enlarged image on Page 5)

Safety Latch Label

Air Inlet, Traversing Head Direction Selector, and Release Valve from left to right respectively

Maximum Capacity Label

Operator Controls (enlarged image on Page 5)





## **Safety, Warning, & Hazard Illustrations Continued**



Illustrated left: Operator Controls

Illustrated Below: Checklist & Operating Instructions

### **Daily Checklist:**

1. Fully stroke lifting head to high position.
2. Traverse the lifting head from side to side to check for normal operation.
3. Adjust head tilt to check for normal operation by opening access door and adjusting.
4. Visually inspect for bent or damaged components, damaged hoses or fittings, hydraulic leaks, etc.
5. Lower lifting head to rest position.

### **Operating Instructions:**

1. Position Component Handler squarely under load.
2. Connect up air supply to air inlet.
3. Fully close release valve.
4. Raise lifting head by actuating control valve labeled "Lifting Pump Actuator"
5. Position lifting head under the load to insure it centers the lifting surface.
6. Align the head tilt to match the lifting surface by opening the access door and adjusting.
7. If something is to be accessed near the load, **THE LOAD MUST BE LOCKED ON THE SAFETY MECHANISM** by opening the release valve until the load rests on the safety mechanism then close the valve. **NEVER POSITION YOURSELF UNDER A SUSPENDED LOAD.**
8. The load is lowered by: 1) Lifting the load slightly to remove pressure from the safety mechanism, 2) actuating and holding the control valve labeled "safety latch release", and 3) slowly opening the release valve to lower the load.

**Maximum Adapter Size 18" x 18" Centered on Lifting Head**

## **General Instructions**

The CHLP 5008 Component Handler is a specialized tool designed to increase productivity & safety. The lifting capacity of this tool is 2,268 kg (5,000 lbs).

Primary uses for this tool would be for removal and replacement of Belly Pans, Transmissions Saddle Tanks, Pumps or other components.

The Component Handler is built on a wide base to stabilize loads regardless of the extended height.

The Hydra-Tech Component Handler incorporates an independent patented Safety Latch, which ensures the safety of the operator and the load. The Safety Latch secures the lifted load mechanically once the load is lifted. A 10" (25.4 cm) retracted height provides the room to maneuver your load even in limited circumstances and access situations. The maximum extended height of 44" (111.76 cm) allows you to reach the intended load in most situations.

The CHLP5008 Component Handler is powered by air over hydraulics. There are 6 operating controls on the Component Handler. They are:

1. Table Tilt Level Arm (Page 4 Top Illustration)  
To set the degree of tilt on the table.  
**NOTE: Always access through the head tilt access door.**
2. Load Lowering Release Valve (Page 4 Bottom Illustration)  
For lowering the load.
3. Table Directional Valve (Page 4 Bottom Illustration)  
To shift the table left or right.
4. Traversing Pump Actuator (Page 5 Top Illustration)  
To activate the table hydraulics.
5. Lifting Pump Actuator (Page 5 Top Illustration)  
For lifting the load.
6. Safety Latch Release (Page 5 Top Illustration)  
For releasing the independent air operated Safety Latch.

**ANY LOAD MUST BE SECURED PRIOR TO MOVEMENT.**



## **Operating Instructions & Checklist**

### **Daily Checklist:**

1. Fully stroke the lifting head to the high position.
2. Traverse the lifting head in a full stroke left and right to check for normal operation.
3. Adjust the head tilt to check for normal operation by opening the access door and adjusting.
4. Visually inspect for bent or damaged components, hoses or fittings, and hydraulic leaks etc.
5. Tighten loose bolts and fittings as required.

### **Setup:**

- Begin by confirming that the load to be lifted by the component handler is not in excess of the maximum capacity of 2,268 kg (5,000 lbs).
- Prior to using the CHLP 5008 a walk around inspection is to be performed; carefully assessing the equipment for leaks or damages that may impair the proper and safe operation of the equipment.
- The work area should be checked for and cleared of any hazards present in the area.
- The CHLP 5008 must be positioned centrally and squarely under the load on a level, firm surface. **FAILURE TO DO SO MAY CAUSE THE LOAD TO BECOME UNSTABLE AND FALL OFF THE COMPONENT HANDLER.**
- Prevent the CHLP 5008 wheels from moving by using adequate blocks or chocks.
- Connect the air supply (maximum 120 psi) to the air inlet found on the operators interface.
- Ensure the load lowering release valve is fully closed by rotating the valve clockwise.
- Perform a second inspection of the surrounding area to confirm that people, and potential hazards are clear of the lifting area.

## **Raising:**

- Position yourself at the rear of the CHLP 5008. Never expose yourself to a live load. Mechanically support all loads once they are lifted.
- Depress the button labeled “Lifting Pump Actuator”, raising the traversing lifting head until it is just below the desired contact point of the load.

NOTE: You should hear a distinct clicking noise as the lifting arm ascends! This is caused by the mechanical lock within the Safety Latch mechanism. **IF YOU DO NOT HEAR THE SAFETY LATCH CLICKING DO NOT PROCEED FURTHER AND SERVICE THE CHLP 5008.**

- Adjust the angle of the traversing lifting head to be parallel with the surface of the loads contact point by opening the latch door labeled “Head Tilt Access” and reaching within to rotate the leveling arm. **DO NOT ATTEMPT TO ACCESS THE LEVELING ARM FROM ANOTHER LOCATION AND BEWARE OF PINCH POINTS.** Refer to the illustration to the right.



- Proceed to raise the load to the desired height.

NOTE: If something is to be accessed near the load, **THE LOAD MUST BE LOCKED ON THE SAFETY MECHANISM** by opening the release valve, rotating it counter-clockwise, until the load rests on the safety mechanism then close the valve.

**NEVER POSITION YOURSELF UNDER A SUSPENDED LOAD.**

**Lowering:**

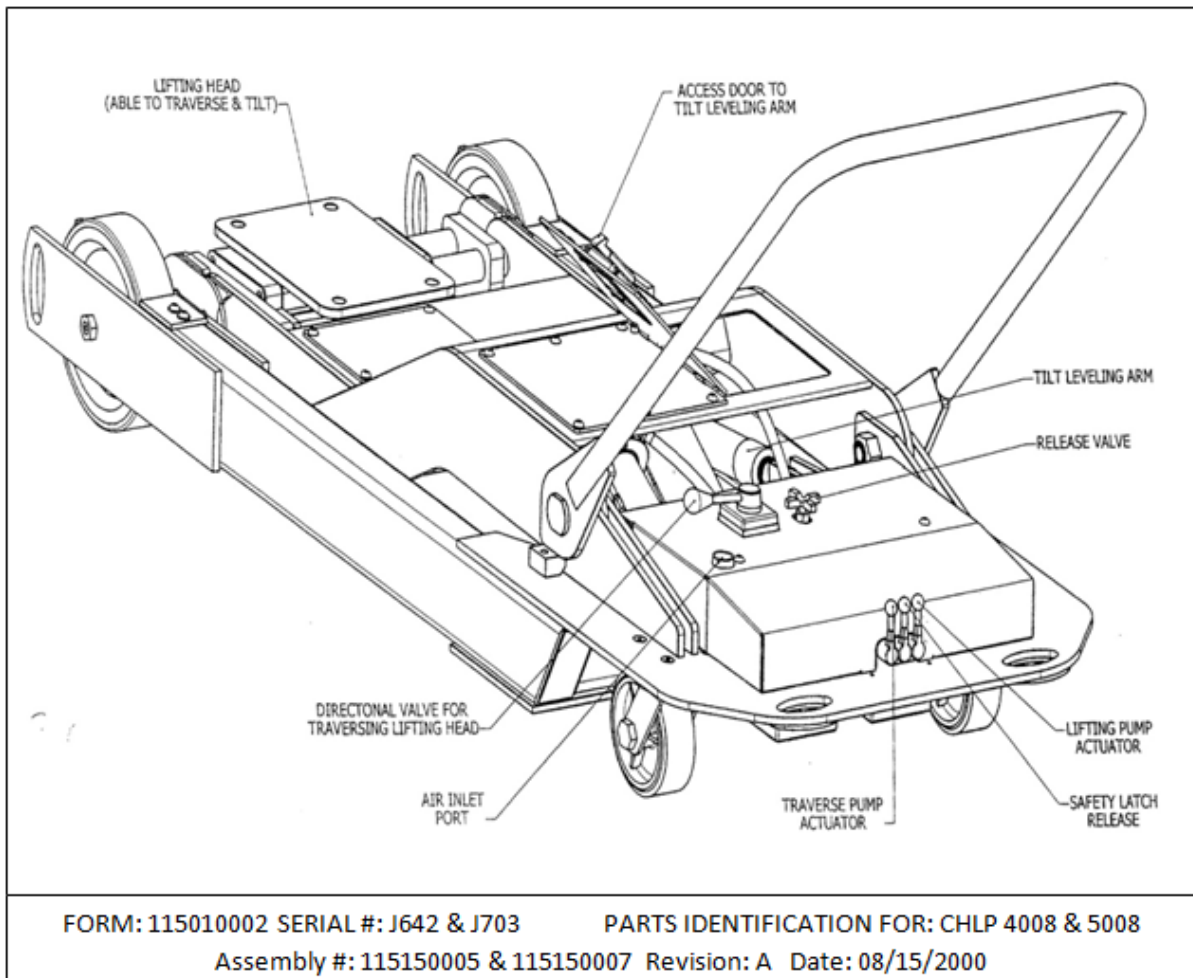
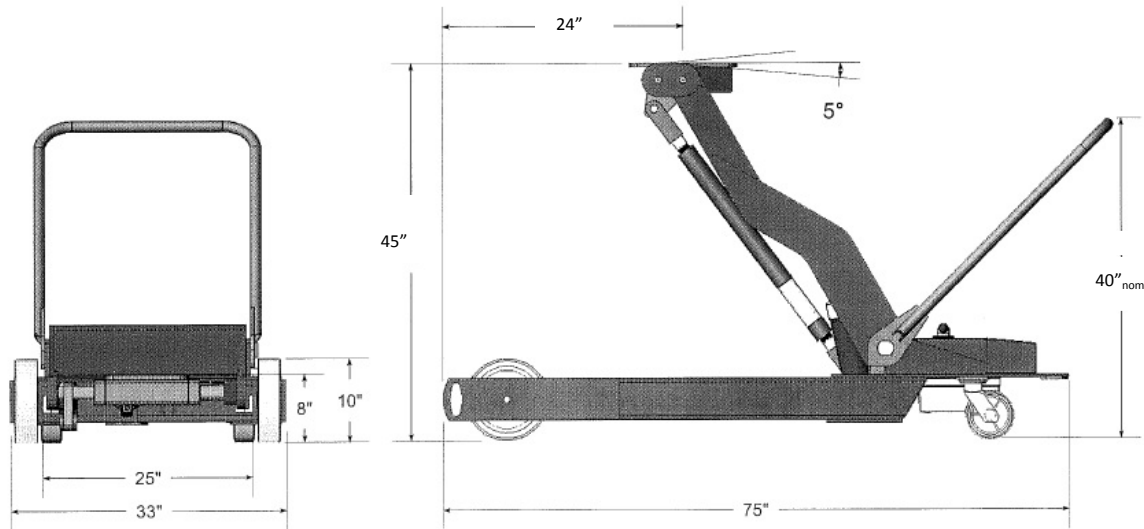
- Ensuring that the release valve is closed, by rotating it clockwise, begin to raise the load slightly by depressing the lifting pump actuator. This removes pressure from the safety latch mechanism.
- Press and hold the safety latch release actuator with one hand and with your other hand slowly rotate the release valve counter-clockwise to lower the load.

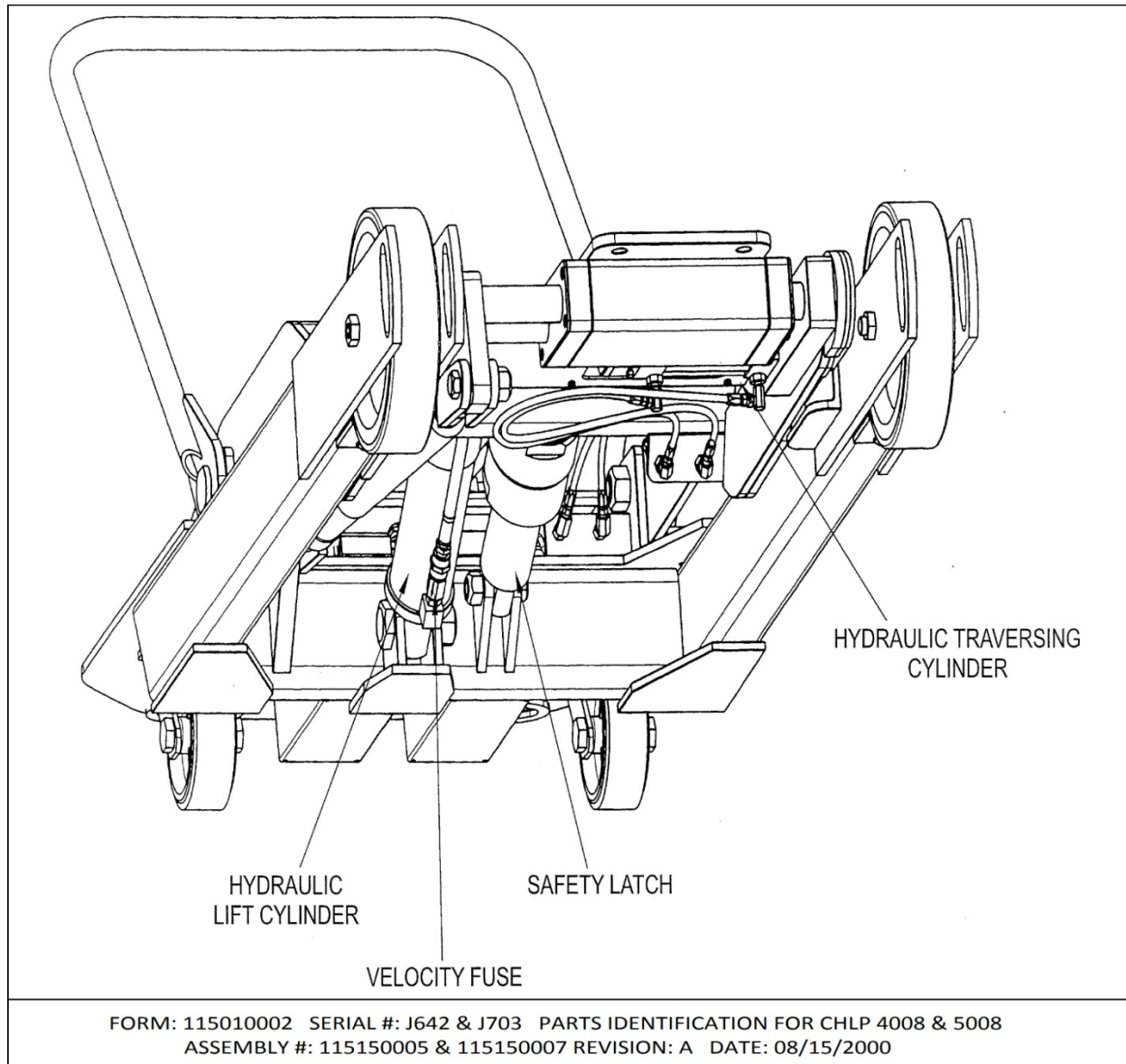
NOTE: The speed at which the load is lowered is controlled by the rate and degree to which you open the release valve.

**THE LOAD SHOULD BE LOWERED SLOWLY TO REDUCE RISK OF DAMAGES, SERIOUS PERSONAL INJURY, OR DEATH.**

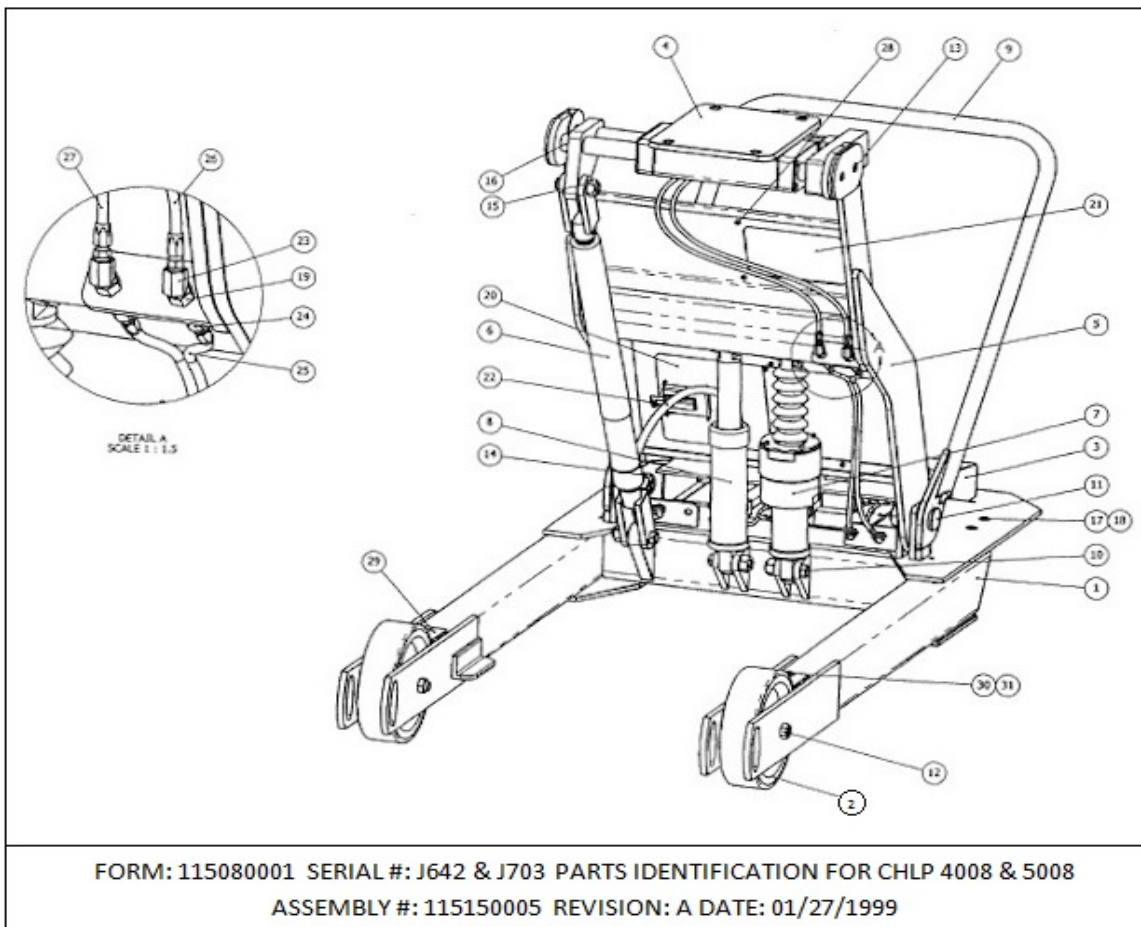
## **Component Handler Drawings**

NOTE: Drawings and specifications are based on material available at the time the manual was written. Please contact Hydra-Tech International for the most current information regarding the CHLP 5008, its components and accessories.

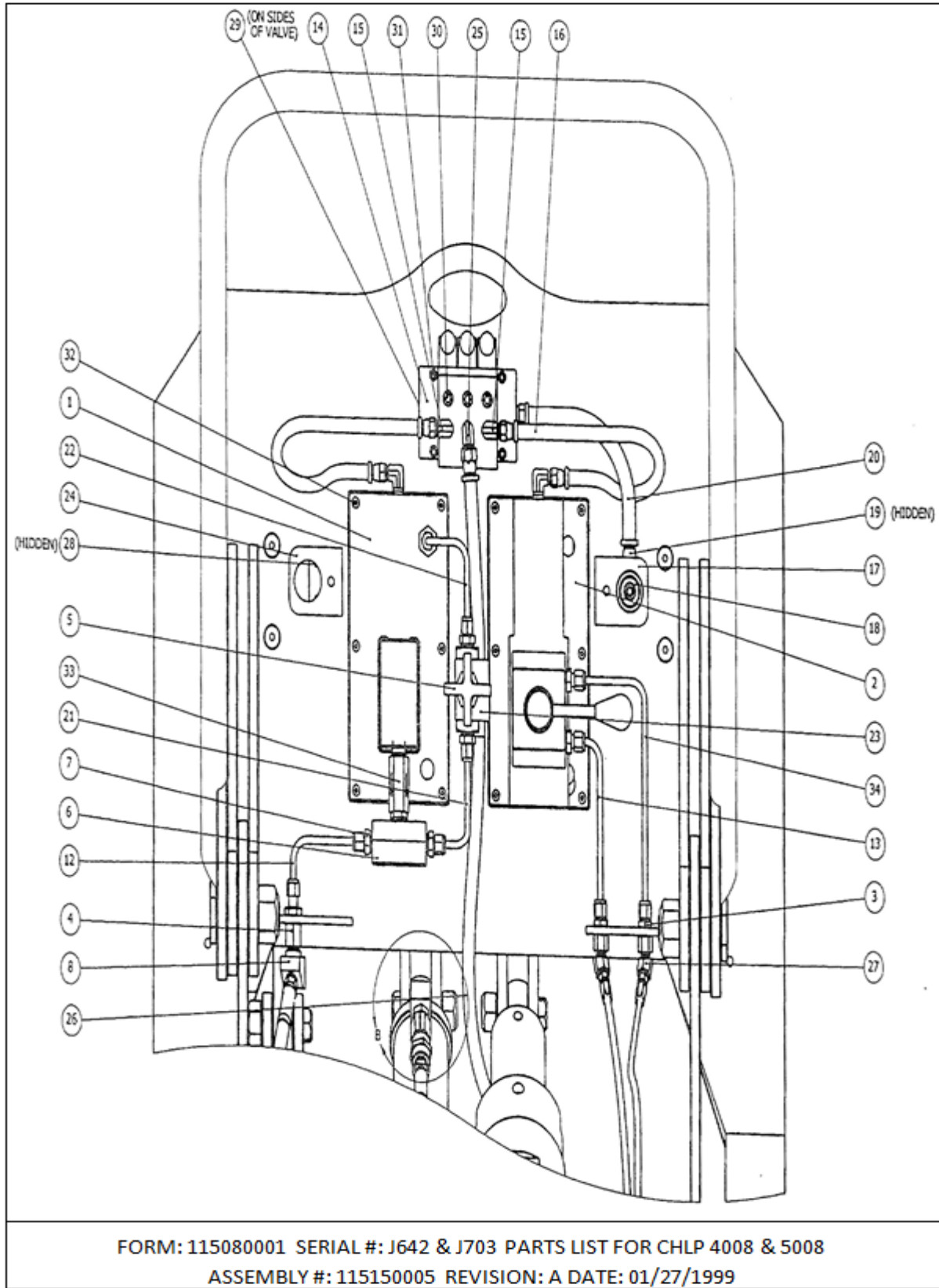




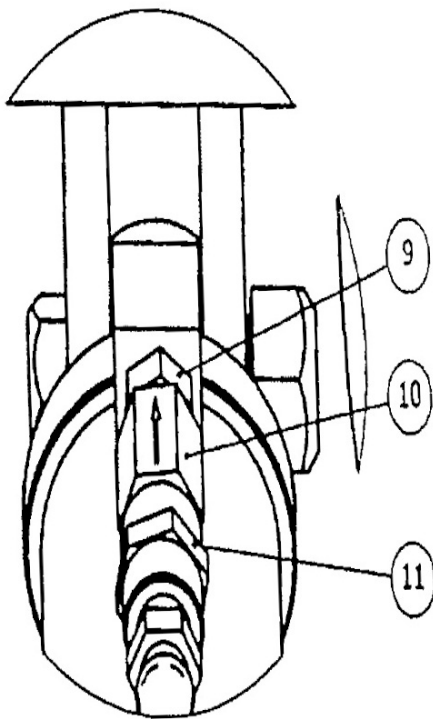




ITEM #	QTY.	PART #	PART DESCRIPTION
1	1	115120016	BASE FRAME
2	2	192410014	WHEEL 10" URETHANE ON CAST
3	1	115110082	REAR GUARD
4	1	115130014	HEAD ASSEMBLY
5	1	115120034	LIFT ARM ASSEMBLY
6	1	115130006	LEVEL ARM
7	1	115130010	SAFETY LATCH
8	1	115140002	HYDRUALIC CYLINDER
9	1	115120045	HANDLE
10	6	115100036	CYLINDER & SAFETY PIN
11	2	115100088	HANDLE PIN
12	2	192410027	AXLE BOLT 3/4" NC x 5 LG
13	2	192310052	3/8" Ø NC x 1/2" LG SOCKET FLATHEAD CAP SCREW
14	2	192310009	1" Ø NC STOVER LOCKNUT
15	6	192310002	3/8" Ø NC STOVER LOCKNUT
16	1	115130016	SPACER TUBE
17	8	192310132	3/8" Ø NC x 1 - 1/4" LG SOCKET FLATHEAD CAP SCREW
18	8	192310029	3/8" Ø - 16 NC LOCKNUT
19	2	192300091	-4 JIC MALE - 1/8" NPT FEMALE BULKHEAD
20	1	115130016	HINGED COVER ASSEMBLY
21	1	115110092	FRONT COVER PLATE
22	1	192400118	LIFT CYLINDER SUPPLY HOSE ASSEMBLY
23	4	192300095	STREET ELBOW 45° 1/8" NPT MALE - FEMALE
24	2	192300094	ADAPTOR -4 JIC FEMALE SWIVEL - 1/8" NPT FEMALE
25	2	115400005	LOWER TRAVERSE HOSE ASSEMBLY
26	1	115400008	UPPER TRAVERSE HOSE ASSEMBLY - LONG
27	1	115400007	UPPER TRAVERSE HOSE ASSEMBLY - SHORT
28	12	192310150	3/8" Ø NC x 5/8" LG SOCKET BUTTONHEAD SCREW
29	4	115110150	SCRAPER PLATE
30	8	192310060	3/8" Ø SAE WASHER
31	8	192310154	3/8" NC x 5/8" LG SOCKET BUTTONHEAD SCREW

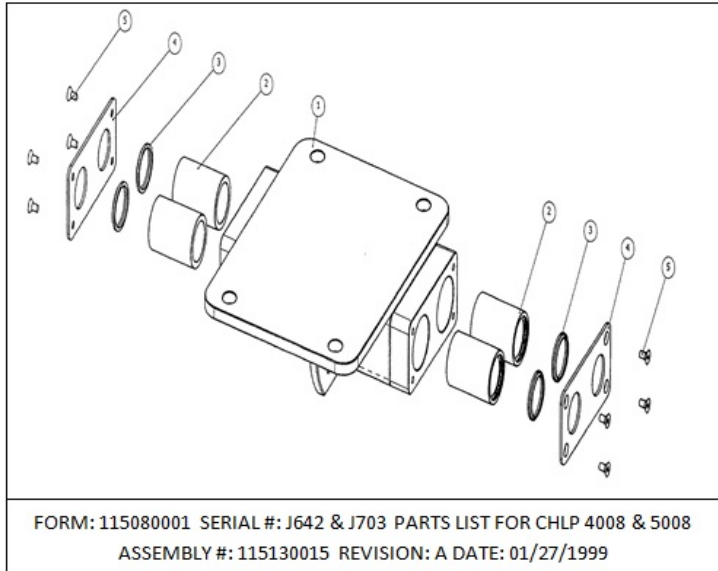


\*Refer to next page for detail B & parts list

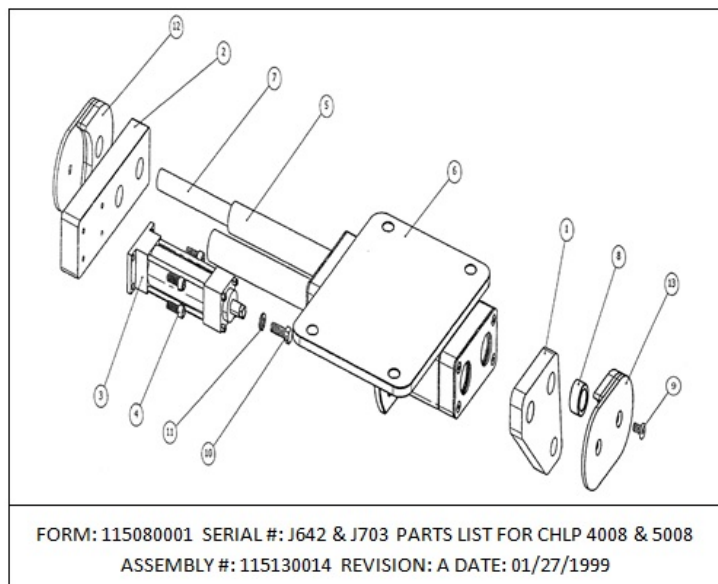


DETAIL B  
SCALE 1 : 1

ITEM #	QTY.	PART #	PART DESCRIPTION
1	1	115130008	PA6 – 10,000 psi PUMP
2	1	115130007	PA6DM – 3,000 psi PUMP
3	2	192300090	¼ TUBE x 1/8 NPT FEMALE BULKHEAD
4	1	192300055	¼ TUBE x ¼ NPT FEMALE BULKHEAD
5	1	192430020	NEEDLE VALVE FFG2003T
6	1	192380054	3/8 NPT FEMALE TEE 10,000 psi
7	4	192300013	¼ TUBE x 3/8 NPT MALE CONNECTOR
8	1	192380057	¼ NPT 45° ELBOW MALE/FEMALE 10,000 psi
9	1	192300047	3/8 NPT MALE PIPE NIPPLE 10,000 psi
10	1	192380056	VELOCITY FUSE 9631
11	1	192300075	3/8 NPT FEMALE PIPE CONNECTOR
12	1	115360009	CYLINDER ADVANCE TUBE ASSEMBLY
13	1	115360011	RIGHT TRAVERSE ADVANCE TUBE ASSEMBLY
14	1	192450014	MAC AIR VALVE
15	4	192300078	MALE 90° ELBOW -4 JIC x ¼ NPT
16	2	115400003	PUMP AIR SUPPLY HOSE ASSEMBLY
17	1	115120046	AIR SUPPLY BRACKET
18	1	192300085	BUSHING ¼ NPT – 3/8 NPT
19	1	192300084	MALE 90° ELBOW 6 JIC x 3/8 NPT
20	1	115400003	AIR INLET HOSE ASSEMBLY
21	1	115360010	LOWERING VALVE TUBE ASSEMBLY
22	1	115360008	PUMP RETURN TUBE ASSEMBLY
23	1	115110094	RELEASE VALVE MOUNT BRACKET
24	1	115110093	AIR SUPPLY MOUNT BRACKET
25	1	192300089	MALE 90° ELBOW ¼ NPT x 9/16 JIC
26	1	115400004	SAFETY LATCH AIR SUPPLY HOSE ASSEMBLY
27	2	192300092	ELBOW 45° 1/8 NPT MALE x FEMALE ADAPTER
28	4	192310091	3/8 Ø x 5/8 LG NC HEX BOLT
29	5	192300053	3/8 NPT PLUG
30	3	192300052	¼ NPT PLUG
31	4	192310151	¼ NC x 2-1/2 LG SOCKET CAP SCREW
32	12	192310152	10-24 NC x 1-1/4 LG SOCKET BUTTON HEAD SCREW
33	4	192310153	10,000 psi CHECK VALVE
34	1	115360012	LEFT TRAVERSE ADVANCE TUBE ASSEMBLY



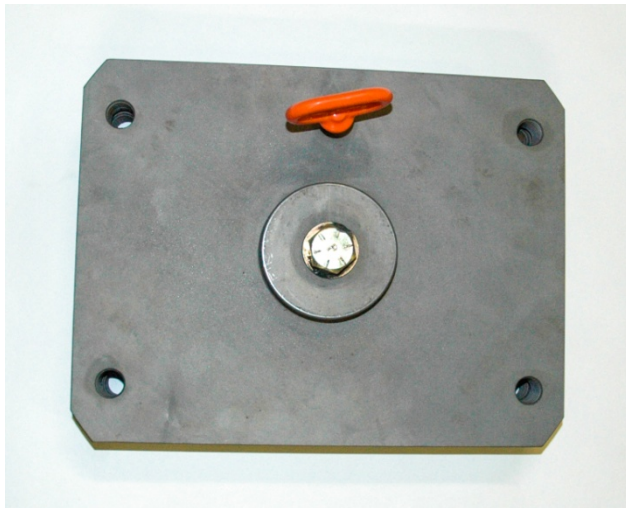
ITEM #	QTY.	PART #	PART DESCRIPTION
1	1	115120036	LIFTING HEAD
2	4	1151000015	BRONZE BUSHING
3	4	959-17	WIPER SEAL
4	2	115110083	BUSHING RETAINING PLATE
5	8	192310118	3/4 Ø NC x 1/2 LG FLAT HEAD CAP SCREW



ITEM #	QTY.	PART #	PART DESCRIPTION
1	1	115110070	LEVEL ARM PLATE
2	1	115110029	CYLINDER REACTION BLOCK
3	1	192320009	HYDRUALIC CYLINDER
4	4	192310094	3/8 Ø x 1 LG NC AHCS
5	2	115100083	SLIDE TUBE
6	1	115130015	LIFTING HEAD SUB-ASSEMBLY
7	1	115100061	GUIDE ROD
8	1	115100084	SPACER TUBE
9	2	192310052	3/8 Ø x 3/4 LG FHCS
10	1	192310048	7/16-20 Ø NF x 1-1/4 LG HEX BOLT
11	1	192310131	7/16 Ø LOCK WASHER
12	1	115120047	LEFT FRONT PIVOT
13	1	115120048	RIGHT FRONT PIVOT

## **Extensions & Adapters**

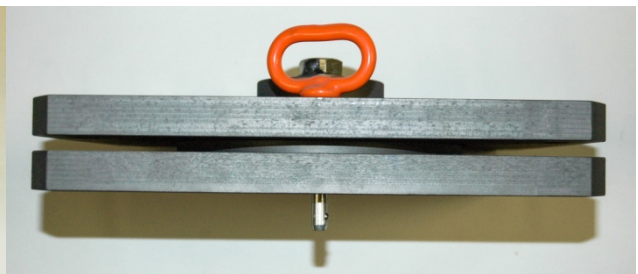
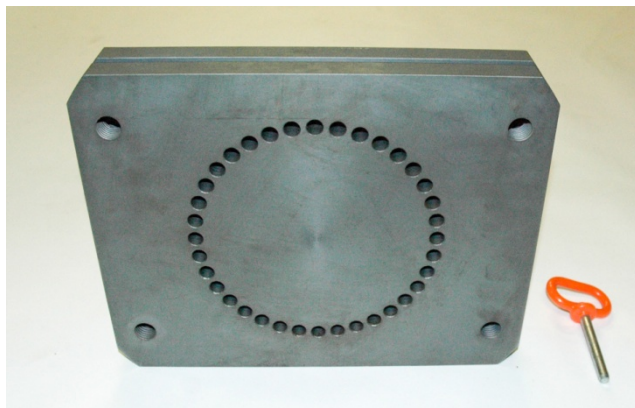
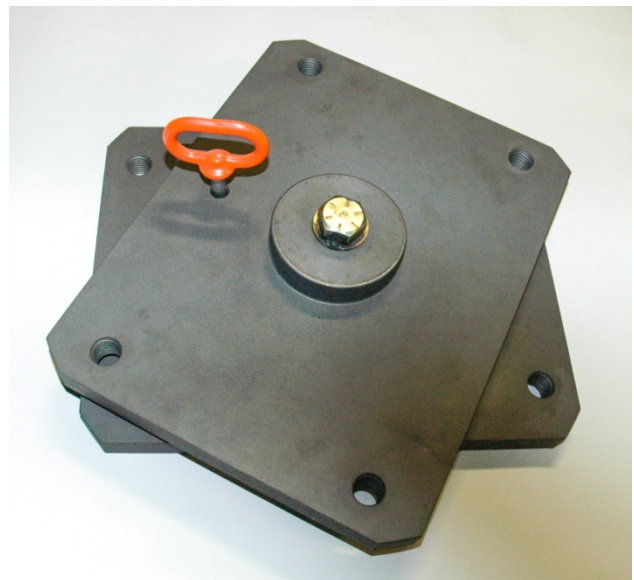
### **Swivel Adapter:**



The swivel adapter is a hydraulic pump removal tool for the CAT 797B Haul Truck.

Hydra-Tech PN # 117130004

The Swivel Adapter may be used in conjunction with other adapters. An example would be the hydraulic pump adapter. The swivel combined with the hydraulic pump adapter would give you the following options: swivel the adapter 360, in addition to the 4" side shift, now offering tilting and rotation motions to be applied to the pump.





## **Extensions & Adapters**

### **Tri-Link Adapter:**

Hydra-Tech manufactures a cradle to assist in the removal and replacement of the Tri-Link on the Caterpillar 797 Truck

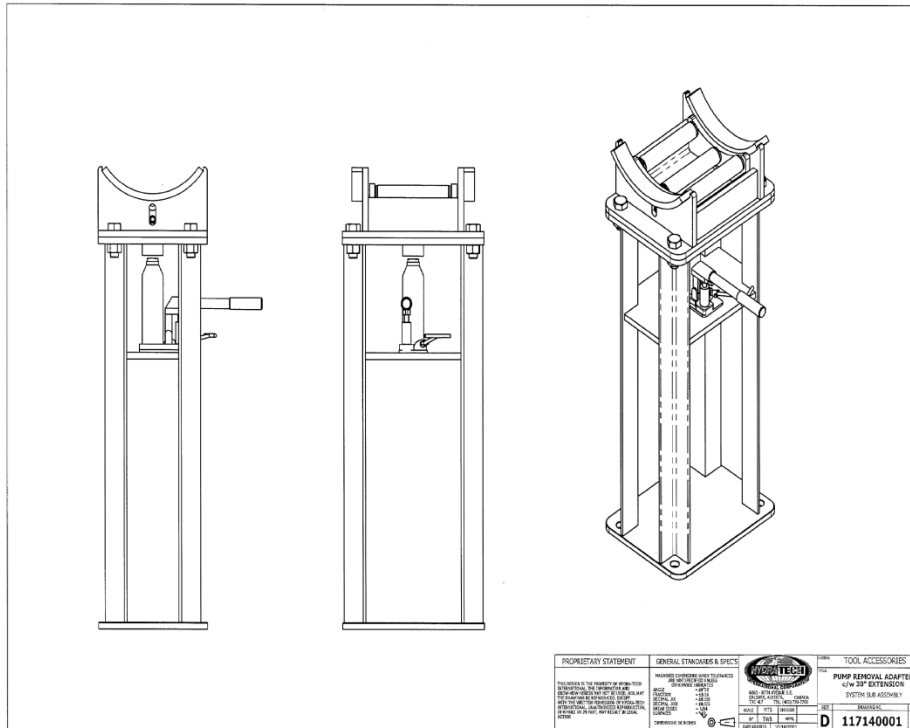


The Tri-Link adapter is a hydraulic pump removal tool for the CAT 797 Haul Truck

Hydra-Tech PN # 117120012

## **Extensions & Adapters**

### **Hydraulic Pump Adapter:**



The Hydraulic Pump Adapter is used as a removal tool for CAT 797B Haul Trucks.

Hydra-Tech PN#  
117140001

The Hydraulic Pump Adapter bolts to the saddle on the CHLP5008. With the 44" (111.76cm) reach of the Component Handler this adapter provides a safe & efficient method of changing out Hydraulic Pumps.

### **Operating Instructions:**

Extend the CHLP with the adapter until it is within 2" (5cm) of the hydraulic pump. The final adjustment to the pump must be made with the hand actuated bottle jack on the adapter. (NOTE: the CHLP will provide as much as 2,268 kg (5,000 lbs) of lifting capacity). Using the CHLP 5008 to make the final adjustment could result in damage to the pump housing.

Extend the adapter to the pump with the bottle jack. The rollers on the adapter will allow the operator to rotate the pump to align bolt holes. The adapter is equipped with a load holding strap to secure the pump through the service operation.

**ALWAYS SECURE THE LOAD IN LIFTING, LOWERING AND REMOVAL FUNCTIONS.**

## **Preventative Maintenance**

### **Daily Checklist:**

1. Fully stroke the lifting head to the high position.
2. Traverse the lifting head in a full stroke left and right to check for normal operation.
3. Adjust the head tilt to check for normal operation by opening the access door and adjusting.
4. Visually inspect for bent or damaged components, hoses or fittings, and hydraulic leaks etc.
5. Tighten loose bolts and fittings as required.

REMOVE FROM SERVICE IF DAMAGE, CRACKS, BENT COMPONENTS OR  
HYDRAULIC LEAKS ARE FOUND.

### **General Level 1 Maintenance:**

Recommended every 12 months depending on usage.

1. Clean unit
2. Inspect for leaks
3. Check for any loose bolts & tighten as required
4. Check for any cracks on main frame and lift frame
5. Replace damaged or missing safety decals
6. Inspect hoses for damage
7. Check for any loose fittings and tighten as required
8. Ensure safety latch is functioning correctly
9. Check condition of air connection quick coupler
10. Check handle pin bushings

PREVENTATIVE MAINTENANCE IS A REQUIREMENT FOR EQUIPMENT AND  
MACHINERY.

### **Storing:**

To reduce potential wear and keep the CHLP 5008 in best form it is recommended that the equipment be stored in a dry, covered location, where it is protected from the elements and potential environmental hazards. When the CHLP 5008 is being stored it should be in the fully retracted (lowered) position and any pressure within the hydraulic hoses should be removed by moving the traversing direction valve left and right several times and opening and closing the release valve.

### **Repair:**

Any repairs should be done by Hydra-Tech International or an approved service centre.

### **Lubrication:**

If required, grease can be applied to the front wheels via the greasable axle.

## **Service Centres**

Please contact Hydra-Tech International for current information on the closest service center to you. Contact information for Hydra-Tech International follows:

6060 – 86<sup>th</sup> Avenue SE, Calgary, Alberta, Canada T2C 4L7  
Telephone (403) – 720 – 7740 Fax (403) – 720 – 7758  
Website: [www.hydra-tech.net](http://www.hydra-tech.net)

## **Recommended Hydraulic Fluids**

(For ambient temperatures from -20°F / -29°C to 120°F / 49°C)

Power Team AW46  
Exxon Univis Extra  
Texaco Rando HDAZ

### **Notes:**

Alternate fluids may be used if they have the following characteristics:

- Pour point -45°F, viscosity 150 SUS@ 100°F
- Viscosity 45 SUS @ 210°F
- Viscosity index 150, and anti-corrosion, anti-foam, anti-oxidant, anti-rust, anti-wear and demulsifier additives

## **STANDARD WARRANTY**

1. **WARRANTY POLICY.** Subject to those terms and conditions contained herein, Seller warrants that all Seller products conform in all material respects to the description identified in the quotation, proposal or offer made by Seller to Buyer for the sale of its products (collectively, "**Quotation**") and will be free from defects in material and workmanship for two (2) years from the date of shipment to Buyer (except for spare parts which Seller warrants for one (1) year from the date of shipment to Buyer). Products manufactured by manufacturers other than Seller and/or its affiliates ("**Other Manufacturer's Products**") supplied by Seller to Buyer are not warranted by Seller. Other Manufacturer's Products may be warranted separately by their respective manufacturers and Seller shall, to the extent possible, assign to Buyer whatever rights Seller may obtain under any such warranties.

**THE FOREGOING REPRESENTS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY SELLER TO BUYER AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW (INCLUDING BY STATUTE) OR OTHERWISE, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

2. **WARRANTY REMEDIES.** Buyer's sole and exclusive remedy for Seller's breach of the foregoing warranties during the warranty period shall be, at Seller's sole discretion, the repair and/or replacement of any defective products (or component parts thereof) pursuant to the terms of and conditioned upon Buyer's compliance with the procedure identified in Section 5 hereof.
3. **LIMITATION OF DAMAGES. SELLER SHALL HAVE NO LIABILITY TO BUYER OR ANY END USER OF PRODUCTS OR SERVICES WITH RESPECT TO THE SALE OF PRODUCTS OR PROVISION OF SERVICES UNDER THE QUOTATION FOR LOST PROFITS OR FOR SPECIAL, CONSEQUENTIAL, EXEMPLARY, OR INCIDENTAL DAMAGES OF ANY KIND WHETHER ARISING IN CONTRACT, TORT, PRODUCT LIABILITY, STRICT LIABILITY OR OTHERWISE, EVEN IF SELLER WAS ADVISED OF THE POSSIBILITY OF SUCH LOST PROFITS OR DAMAGES. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER FOR ANY DAMAGES WHATSOEVER IN EXCESS OF THE TOTAL PRICE PAID BY BUYER FOR PRODUCTS AND/OR SERVICES REFERENCED IN THE QUOTATION.**
4. **INAPPLICABILITY OF, AND VOIDING OF THE WARRANTY.** This Standard Warranty does not cover defects in Seller products which are not defects in material and workmanship and may be attributed to other causes including but not limited to failure to operate and/or maintain Seller products in accordance with the applicable Seller installation and/or operator's manuals, owner's manuals, maintenance manuals, manufacturer's recommendations, and any other manuals, guidelines or recommendations of Seller concerning the maintenance and operation of Seller products that may be communicated to Buyer from time to time, side-pulling of load, shock loading, excessive jogging, eccentric loading, overloading, accidental occurrence, improper repair, improper handling or storage of products, chemical exposure and/or abnormal operating conditions not identified to and expressly and specifically accepted by Seller in writing prior to Seller's issuance of a Quotation, or any other cause that in Seller's sole discretion is not attributable to defects in material and workmanship. Failure of products to meet published performance specifications due to abnormal operating conditions beyond Seller's knowledge or control shall not be considered defects in either workmanship and/or material.



Modification of Seller products and/or incorporation of Other Manufacturer's Products into Seller products by individuals and/or organizations other than Seller shall void this Standard Warranty.

Buyer's failure to pay in full when due for the products and services provided for in a Quotation shall void this Standard Warranty.

5. **WARRANTY PROCEDURE.** To obtain warranty remedies pursuant to this Standard Warranty, Buyer must strictly adhere to the following procedure. Buyer's failure to comply with the terms of this procedure shall void this Standard Warranty.

- (a) Buyer shall, within seventy-two (72) hours of any claimed non-conformance or defect in Seller products, notify Seller's Warranty Administrator in writing of the alleged non-conformance or defect.
- (b) Seller shall, within a reasonable time, advise Buyer of its intention to initially accept or deny the warranty claim pursuant to the terms of this Standard Warranty. If Seller elects to initially accept the warranty claim, it shall advise Buyer of its intention to replace, repair, or otherwise further inspect the allegedly nonconforming or defective products (or component parts thereof) ("**Initial Acceptance**").
  - (i) **Replacement of allegedly nonconforming or defective products.** Should Seller provide Initial Acceptance of Buyer's warranty claim and elect to replace the allegedly nonconforming or defective products (or component parts thereof), or should Seller elect to provide Initial Acceptance of Buyer's warranty claim through notification to Buyer that Seller elects to inspect the allegedly nonconforming or defective products (or component parts thereof) and then subsequently elect to replace the allegedly nonconforming or defective products (or component parts thereof), Seller shall within a reasonable time, ship new, comparable, replacement products to Buyer F.C.A. Seller's plant, warehouse or dock, as defined by Incoterms 2010, via the lowest cost method available.
  - (ii) **Repair of allegedly nonconforming or defective products.** Should Seller provide Initial Acceptance of Buyer's warranty claim and elect to repair and/or permit the repair of the allegedly nonconforming or defective products (or component parts thereof) by approved third parties, or should Seller elect to provide Initial Acceptance of Buyer's warranty claim through notification to Buyer that Seller elects to inspect the allegedly nonconforming or defective products (or component parts thereof) and then subsequently elects to repair the allegedly nonconforming or defective products, Seller shall, unless otherwise agreed in writing by the Warranty Administrator, pay only those direct labor costs incurred to effectuate the repair and the cost of Seller replacement products consumed during said repair provided that the costs for all products and/or services are approved in advance in writing by Seller's Warranty Administrator.
  - (iii) **Inspection of allegedly nonconforming or defective products.** Should Seller provide Initial Acceptance of Buyer's warranty claim through notification to Buyer that Seller elects to inspect the allegedly nonconforming or defective products (or component parts thereof) and then subsequently determine that the alleged nonconformity or defect is not covered under this Standard Warranty, Seller shall bill Buyer, and Buyer shall pay Seller any and all costs associated

- (iv) with the performance of inspection of allegedly nonconforming or defective products.

- 6. **WAIVER. BUYER HEREBY WAIVES ANY CLAIM THAT THE EXCLUSIONS OR LIMITATIONS IDENTIFIED HEREIN DEPRIVE IT OF AN ADEQUATE REMEDY. BUYER SHALL BE ENTITLED TO NO OTHER REMEDY OTHER THAN THOSE IDENTIFIED IN SECTION 2 HEREOF WITH RESPECT TO THE PROVISION OF PRODUCTS AND/OR SERVICES BY SELLER REGARDLESS OF THE FORM OF CLAIM OR CAUSE OF ACTION, WHETHER BASED IN CONTRACT, TORT INCLUDING NEGLIGENCE, STRICT LIABILITY OR OTHERWISE.**