

OWNER'S/ OPERATOR'S MANUAL

MODEL NO.'s

**HPD-16 SHC
HPD-16 SWO**

(S/N 4215 and above)

**HPD-22Q SHC
HPD-22Q SWO**

(S/N 5501 and above)

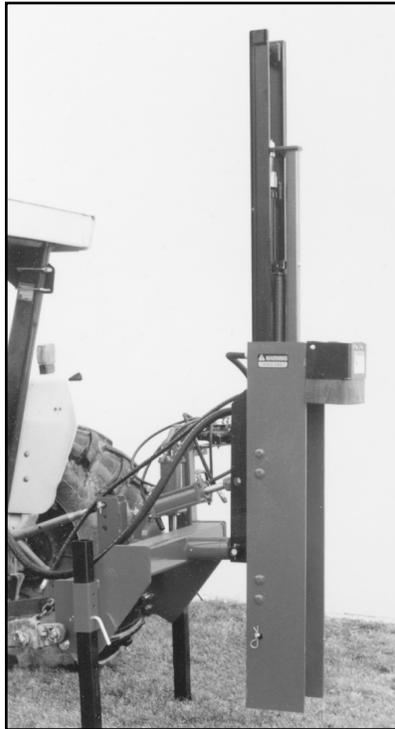
**HPD-26Q SHC
HPD-26Q SWO**

(S/N 1501 and above)

SI NO LEEINGLES, PIDA AYUDA
A AIGUIEN QUE SI LO LEA
PARA QUE LE TRADUZCA LAS
MEDIDAS DE SEGURIDAD.

CAUTION

For Safe Operation Read Rules And Instructions Carefully



HYDRAULIC POST DRIVER with 3-PT. HYDRAULIC POSITIONING MOUNT with Quick Change™ System

**Safety Instructions
Tractor Preparation
Operating Instructions**

**Assembly & Mounting
Maintenance
Repair Parts**

CAUTION

**THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE THOROUGHLY UNDERSTOOD
BEFORE ATTEMPTING TO BEGIN ASSEMBLING THIS MACHINE**

1. Select an area for assembly that is clean and free of any debris which might cause persons working on the assembly to trip.
2. Do not lift heavy parts or assemblies. Use crane, jack, tackle, fork trucks or other mechanical devices.
3. Preview the assembly instructions in your operator's manual before proceeding further.
4. If the assembly instructions call for parts or assemblies to be blocked up, use only blocking material that is in good condition and is capable of handling the weight of the assembly to be blocked. Also insure that the blocking material is on a clean, dry surface.
5. Never put hands, or any part of body, under blocked up assemblies if at all possible.
6. After completing assembly, thoroughly inspect the machine to be sure that all nuts, bolts, hydraulic fittings or any other fastened assemblies have been thoroughly tightened.
7. Before operating the machine, thoroughly read the operation section of your operator's manual.
8. Before operating, read the maintenance section of your operator's manual to be sure that any parts requiring lubrication, such as gearboxes, are full, to avoid any possible damage.
9. **Before operating equipment – If you have any questions regarding the proper assembly or operation, contact your dealer or representative.**

TABLE OF CONTENTS

WARRANTY	2
SAFETY INFORMATION	3-9
SAFETY SIGNS	10
PREPARATION INSTRUCTIONS	11-15
OPERATING INSTRUCTIONS	15-16
SERVICE INSTRUCTIONS	16-18
SPECIFICATIONS	19
TROUBLE-SHOOTING	20-23
PARTS LISTS	24-36

SI NO LEEINGLES, PIDA AYUDA A AIGUIEN QUE SI LO LEA PARA QUE LE TRADUZCA LAS MEDIDAS DE SEGURIDAD.

STATEMENT OF POLICY

It is the policy of Worksaver, Inc. to improve its products where it is possible and practical to do so. Worksaver, Inc. reserves the right to make changes or improvements in design and construction at any time, without incurring the obligation to make these changes on previously manufactured units.

TO THE OWNER:

Read this manual before using your Hydraulic Post Driver. This manual is provided to give you the necessary operating and maintenance instructions for keeping your Hydraulic Post Driver in top operating condition. Please read this manual thoroughly. Understand what each control is for and how to use it. Observe all safety signs on the machine and noted throughout the manual for safe operation of implement. Keep this manual handy for ready reference.

Like all mechanical products, it will require cleaning and upkeep. Lubricate the Post Driver as specified.

Use only genuine Worksaver, Inc. service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model and serial number of your Post Driver here:

Model: _____ Serial Number: _____

RETAIL CUSTOMER'S RESPONSIBILITY

It is the Retail Customer and/or Operator's responsibility to read the Operator's Manual, to operate, lubricate, maintain, and store the product in accordance with all instructions and safety procedures. Failure of the operator to read the Operator's Manual is a misuse of this equipment.

It is the Retail Customer and/or Operator's responsibility to inspect the product and to have any part(s) repaired or replaced when continued operation would cause damage or excessive wear to other parts or cause a safety hazard.

It is the Retail Customer's responsibility to deliver the product to the authorized Worksaver Dealer, from whom he purchased it, for service or replacement of defective parts which are covered by warranty. Repairs to be submitted for warranty consideration must be made within forty-five (45) days of failure.

It is the Retail Customer's responsibility for any cost incurred by the Dealer for traveling to or hauling of the product for the purpose of performing a warranty obligation or inspection.

LIMITED WARRANTY



Worksaver warrants to the original purchaser of any new Hydraulic Post Driver, that the equipment be free from defects in material and workmanship for a period of twelve (12) months for non-commercial, state, and municipalities. Use ninety (90) days for commercial use from date of retail sale.

Replacement or repair parts installed in the equipment covered by this warranty are warranted for ninety (90) days from the date of purchase of such part or to the expiration of the applicable new equipment warranty period, whichever occurs later.

Such parts shall be provided at no cost to the user during regular working hours. Worksaver reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

DISCLAIMER OF IMPLIED WARRANTIES & CONSEQUENTIAL DAMAGES

Worksaver's obligation under this warranty, to the extent allowed by law, is in lieu of all warranties, implied or expressed, including implied warranties of merchantability and fitness for a particular purpose and any liability for incidental and consequential damages with respect to the sale or use of the items warranted. Such incidental and consequential damages shall include but not be limited to: transportation charges other than normal freight charges; cost of installation other than cost approved by Worksaver; duty; taxes; charges for normal service or adjustments; loss of crops or any other loss of income; rental of substitute equipment, expenses due to loss, damage, detention or delay in the delivery of equipment or parts resulting from acts beyond the control of Worksaver.

THIS WARRANTY SHALL NOT APPLY:

1. To vendor items which carry their own warranties, such as hydraulic motors, valves, and hydraulic cylinders.
2. If the unit has been subjected to misapplication, abuse, misuse, negligence, fire or other accident.
3. If parts not made or supplied by Worksaver have been used in connection with the unit, if, in sole judgement of Worksaver such use affects its performance, stability, or reliability.
4. If the unit has been altered or repaired outside of an authorized Worksaver dealership in a manner which, in the sole judgement of Worksaver affects its performance, stability or reliability.
5. To normal maintenance service and normal replacement items such as gearbox lubricant, hydraulic fluid, worn blades, or to normal deterioration of such things as belts and exterior finish, due to use or exposure.
6. To expendable or wear items such as slide blocks, bumpers, springs and other items that in the company's sole judgement is a wear item.

NO EMPLOYEE OR REPRESENTATIVE OF WORKSAVER IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY UNLESS SUCH CHANGE IS MADE IN WRITING AND SIGNED BY WORKSAVER'S SERVICE MANAGER, POST OFFICE BOX 100, LITCHFIELD, ILLINOIS 62056-0100.



To the Owner/Operator/Dealer

All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this implement to be used with all its safety equipment properly attached to minimize the chance of accidents.

BEFORE YOU START!!

Read the safety messages on the implement and shown in your manual.
Observe the rules of safety and common sense!



THIS SYMBOL MEANS

- ATTENTION!
- BECOME ALERT!
- YOUR SAFETY IS INVOLVED!

THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT SAFETY WARNING MESSAGES. CAREFULLY READ EACH WARNING MESSAGE THAT FOLLOWS. FAILURE TO UNDERSTAND AND OBEY A SAFETY WARNING, OR RECOGNIZE A SAFETY HAZARD, COULD RESULT IN AN INJURY OR DEATH TO YOU OR OTHERS AROUND YOU. THE OPERATOR IS ULTIMATELY RESPONSIBLE FOR THE SAFETY OF HIMSELF, AS WELL AS OTHERS, IN THE OPERATING AREA OF THE TRACTOR AND ATTACHED EQUIPMENT.

UNDERSTAND SIGNAL WORDS



DANGER

Indicates an imminently hazardous situation that, if not avoided, WILL result in DEATH OR VERY SERIOUS INJURY.



WARNING

Indicates a imminently hazardous situation that, if not avoided, COULD result in DEATH OR SERIOUS INJURY.



CAUTION

Indicates a imminently hazardous situation that, if not avoided, MAY result in MINOR INJURY.

NOTE: Identifies points of particular interest for more efficient and convenient operation or repair.

If you have questions not answered in this manual or require additional copies or the manual is damaged, please contact your dealer or the manufacturer directly.

IMPORTANT SAFETY INFORMATION!

Working with equipment can lead to injuries. Read this manual, and the manual for your tractor, before assembly or operating, to acquaint yourself with the machines. It is the Post Driver owner's responsibility, if this machine is used by any person other than yourself, is loaned or rented, to make certain that the operator, prior to operating:

1. Reads and understands the operator's manuals.
2. Is instructed in safe and proper use.



The use of this equipment is subject to certain hazards which cannot be protected against by mechanical means or product design. All operators of this equipment must read and understand this entire manual, paying particular attention to safety and operating instructions, prior to using. If there is something in this manual you do not understand, ask your supervisor, or your dealer, to explain it to you.



Keep all helpers and bystanders twenty-five feet (25') from an operating driver. Only properly trained people should operate this machine. It is recommended the tractor be equipped with a Rollover Protection System (ROPS) and a seat belt that is used. Always engage parking or place transmission in "Park" before dismounting tractor. Never leave equipment unattended with the tractor running.

SAFETY INSTRUCTIONS (continued)



EQUIPMENT SAFETY GUIDELINES

-  Safety of the operator is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or for you, follow them.

-  Personal protection equipment including hard hat, safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, adjustment, maintaining, repairing, removal, or moving the implement. Do not allow long hair, loose fitting clothing or jewelry to be around moving parts.

-  Replace any CAUTION, WARNING, DANGER or instruction safety sign that is not readable or is missing. Location of such safety signs is indicated in this booklet. Do not paint over, remove or deface any safety signs or warning signs on your equipment. Observe all safety signs and practice the instruction on them.

-  Never use alcoholic beverages or drugs which can hinder alertness or coordination while operating this equipment. Consult your doctor about operating this machine while taking prescription medications.

-  Review the safety instructions with all users annually.

-  This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. **Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and of how it works.**

-  To prevent injury or death, use a tractor equipped with a Roll-Over Protective System (ROPS). **Keep foldable ROPS systems in "locked up" position at all times. Keep seat belt fastened.**

-  Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question – **DON'T TRY IT.**

-  Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.

-  In addition to the design and configuration of this implement, including Safety Signs and Safety Equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the machine. Refer also to Safety Messages and Operation Instructions in each of the appropriate sections of the Tractor and Post Driver Manuals. Pay close attention to the Safety Signs affixed to the Tractor and the Post Driver.

SAFETY INSTRUCTIONS (continued)



PREPARATION



Never operate the tractor and post driver until you and the operator have read and completely understand this manual, the Tractor Operator's Manual, and each of the Safety Messages found on the safety signs on the tractor and post driver.



Personal protection equipment including hard hat, safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, adjustment, maintaining, repairing, removal, or moving the implement. Do not allow long hair, loose fitting clothing or jewelry to be around moving parts.



PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!

Tractors with or without attachments can often be noisy enough to cause permanent, partial hearing loss. We recommend that you wear hearing protection on a full-time basis if the noise in the Operator's position exceeds 80db. Noise over 85db on a long-term basis can cause severe hearing loss. Noise over 90db adjacent to the Operator over a long-term basis may cause permanent, total hearing loss. **NOTE:** Hearing loss from loud noise (from tractors, chain saws, radios, and other such sources close to the ear) is cumulative over a lifetime without hope of natural recovery.



Ensure post driver is properly mounted, adjusted and in good operating condition.



Make sure that all operating and service personnel know that in the event hydraulic fluid penetrates the skin, it must be surgically removed within a few hours by a physician familiar with this form of injury, or gangrene may result.



Always use two people or a mechanical lift device to handle heavy, unwieldy components during assembly, installation, removal, or moving the driver.



Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintaining, repairing, removal, or moving the driver.



Before you operate the driver, check over all pins, bolts and connections to be sure all are securely in place. Replace any damaged or worn parts immediately.



Consult local utility companies (Call 811) to make certain there are no buried gas lines, electrical cables, etc., in the work area before beginning operation.



Do not allow anyone who is not familiar with the safety rules and operation instructions to use this Post Driver.



Never allow children to operate or be around this Post Driver.



Use stabilizer bars, adjustable sway chains, or sway blocks on your tractor lift arms to keep the Post Driver from swinging side to side. Adjust as tightly as practical for best performance.



Clear the work area of objects which might cause operator to trip or fall.

SAFETY INSTRUCTIONS (continued)



OPERATIONAL SAFETY

The use of this equipment is subject to certain hazards which cannot be protected against by mechanical means or product design. All operators of this equipment must read and understand this entire manual, paying particular attention to safety and operating instructions, prior to using. If there is something in this manual you do not understand, ask your supervisor, or your dealer, to explain it to you.

-  Know your controls and how to stop the power unit and engine quickly in an emergency. **READ THIS MANUAL AND THE ONE PROVIDED WITH YOUR TRACTOR.**
-  Never operate the tractor and post driver until you have read and completely understand this manual, the Tractor Operator's Manual, and each of the Safety Messages found on the safety signs on the tractor and post driver.
-  Start tractor only when properly seated in the tractor seat. Starting a tractor in gear can result in injury or death. Do not mount or dismount the tractor while the tractor is moving. Mount or dismount the tractor only when the tractor and all moving parts are completely stopped.
-  Do not allow riders on the driver or tractor at any time. There is no safe place for any riders.
-  Do not walk or work under a raised driver ram unless it is securely blocked or held in position. Do not depend on the tractor hydraulic system to hold the driver ram in place.
-  Never leave post driver ram in the raised position. Always lower ram to the ground or to the transport position and install the transport lock pin before transporting or storing.
-  Do not operate post driver on steep hillsides. When installing posts on uneven or hilly terrain, position the tractor with the post driver uphill. This way if any movement of the tractor should occur, it will be away from the post driver operator.
-  Never position the post by hand. Always use Post Holder Tool or Post Holder Attachment.
-  Watch out for low overhead electrical wires and limbs when operating or transporting the post driver. Check clearance of doorways when entering a building.
-  Be sure post is cut "SQUARE" on top. Angle cut post can "KICK OUT" of driver and injure the operator.
-  Install transport lock pin and pin clip before transporting or storing the post driver. **NEVER INSERT FINGER IN TRANSPORT PIN HOLE TO CHECK ALIGNMENT.** Finger could be sheared off if driving ram moves.
-  Keep hands, feet, hair, jewelry, and clothing, away from all moving parts.
-  Do not operate the Post Driver without all safety shields and guards in place.

SAFETY INSTRUCTIONS (continued)



When using a unit, a minimum 20% of tractor and equipment weight must be on tractor front wheels. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a front end loader, front wheel weights, ballast in tires or front tractor weights. When attaining a minimum 20% of tractor and equipment weight on the front wheels, you must not exceed the ROPS weight certification. Weigh the tractor and equipment. Do not guess or estimate!



Only use a tractor equipped with a ROPS cab or rollover protective structure. Keep foldable ROPS systems in “locked up” position at all times. Keep seat belt fastened.



TRANSPORT SAFETY



Comply with state and local laws governing highway safety and movement of farm machinery on public roads.



The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.



When driving the tractor and equipment on the road or highway under 20 mph (32 kph) at night or during the day, use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem.



Always be sure the implement is in the proper raised position for transport.



Reduce speed when transporting mounted implements to avoid bouncing and momentary loss of steering control.



Plan your route to avoid heavy traffic. Watch for traffic when operating near or crossing roadways.



Always install transport locks, pins or brackets before transporting.



Never use alcoholic beverages or drugs which can hinder alertness or coordination while operating this equipment. Consult your doctor about operating this machine while taking prescription medications.



Use extreme care and maintain minimum ground speed when transporting on hillside, over rough ground and when operating close to ditches or fences. Be careful when turning sharp corners. Slow down on rough or uneven surfaces, and loose gravel.



Never allow riders on either tractor or implement. Falling off can kill.



Do not exceed 20 mph (32 kph). Reduce speed on rough roads and surfaces.

SAFETY INSTRUCTIONS (continued)



MAINTENANCE SAFETY

Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.

-  Before working on this machine, drive to a level area, disengage the PTO, lower implement (or if working underneath, raise and block securely), shut off the engine, set the brakes, and remove the ignition keys. Remove hydraulic pressure prior to doing any maintenance. Operate the remote hydraulic control lever in and out several times to relieve hydraulic pressure.
-  Be certain all moving parts on attachments have come to a complete stop before attempting to perform maintenance.
-  Never work under equipment unless it is blocked securely. Never depend on hydraulic system to keep implement in raised position.
-  Keep all persons away from operator control area while performing adjustments, service, or maintenance.
-  Always use personal protection devices such as eye, hand and hearing protectors, when performing any service or maintenance.
-  Periodically tighten all bolts, nuts and screws and check that all cotter pins are properly installed to ensure unit is in a safe condition.
-  When completing a maintenance or service function, make sure all safety shields and devices are installed before placing unit in service.
-  Never use your hands to locate a hydraulic leak on attachments. Use a small piece of cardboard or wood. Hydraulic fluid escaping under pressure can penetrate the skin.
-  Openings in the skin and minor cuts are susceptible to infection from hydraulic fluid. If injured by escaping hydraulic fluid, see a doctor at once. Gangrene and death can result. Without immediate medical treatment, serious infection and reactions can occur.
-  Check to ensure all safety signs are installed and in good condition.

Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. The manufacturer will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.

If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty.

SAFETY INSTRUCTIONS (continued)



STORAGE SAFETY

-  Following operation, or when unhooking, stop the tractor, set the brakes, lower ram to lowest position and engage transport lock pin, shut off the engine, relieve hydraulic pressure and remove the ignition keys.
-  Store the unit in an area away from human activity.
-  Do not park equipment where it will be exposed to livestock for long periods of time. Damage and livestock injury could result.
-  Do not permit children to play on or around the stored unit.
-  Make sure all parked machines are on a hard, level surface and engage all safety devices.
-  If blocking is used, make sure it is solid and secure before leaving area.



SAFETY SIGNS

-  Keep safety signs clean and legible at all times.
-  Replace safety signs that are missing or have become illegible.

Replaced parts that displayed a safety sign should also display the current sign.

Safety signs are available from your Distributor or Dealer Parts Department or the factory.

How to Install Safety Signs:

- Be sure that the installation area is clean and dry.
- Be sure temperature is above 50°F (10°C).
- Decide on the exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of sign backing paper.

SAFETY SIGNS

⚠ CAUTION
ALWAYS WEAR SAFETY GLASSES TO PREVENT EYE INJURY.
<small>101078</small>

NOTE: If Safety Sign is missing or damaged, replace immediately.

SAFETY INSTRUCTIONS	
Si no lee ingles, pida ayuda a alguien que si lo lea para que le traduzca la medidas de seguridad.	
<ul style="list-style-type: none"> • READ THE OPERATOR'S MANUAL BEFORE OPERATING THE POST DRIVER. • SET BRAKES OR PLACE AUTOMATIC TRANSMISSION IN "PARK" BEFORE DRIVING POSTS. • STAND AT A 45° ANGLE TO THE DRIVING RAM. DO NOT STAND IN FRONT OF THE DRIVING RAM. START THE POST WITH A FEW SHORT STROKES UNTIL THE POST IS IN FAR ENOUGH TO HOLD ITS POSITION BY ITSELF, THEN STAND BACK AND FINISH DRIVING THE POST. THE POST DRIVER MUST BE OPERATED BY ONE PERSON ONLY. • USE THE SAFETY POST HOLDER TO START POSTS, THEN REMOVE TO FINISH DRIVING POST. NEVER HOLD A POST WITH YOUR HAND. • ALWAYS USE STEEL T-POST HOLDER WHEN DRIVING STEEL POSTS. • ALWAYS WEAR SAFETY GLASSES TO PREVENT EYE INJURY. • FAILURE TO HEED CAN RESULT IN PERSONAL INJURY OR DEATH. 	 <p style="text-align: center;"><small>POST HOLDER</small></p>
<small>101056</small>	

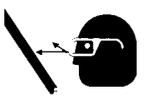


**Know what's below.
Call before you dig.**

101358

⚠ WARNING
<ul style="list-style-type: none"> • AFTER TRACTOR IS POSITIONED: SET BRAKE SECURELY - PUT TRANSMISSION IN PARK. • WHEN OPERATING: NEVER STAND DIRECTLY IN FRONT OF POST DRIVER. STAND AT A [45°] ANGLE TO THE SIDE. • USE SAFETY POST HOLDER ONLY FOR INITIAL PENETRATION. WHEN POST IS SELF-STANDING, STEP ASIDE. • FAILURE TO HEED THE ABOVE MAY RESULT IN PERSONAL INJURY OR DEATH.
<small>101057</small>

⚠ WARNING	
AVOID SERIOUS INJURY	
	<p>NEVER PUT HAND OR FINGERS BETWEEN DRIVING RAM AND POST</p> <p>FAILURE TO HEED WILL RESULT IN INJURY.</p>
<small>101058</small>	

⚠ WARNING	
HIGH-PRESSURE FLUID HAZARD To prevent serious injury or death:	
	<ul style="list-style-type: none"> • Relieve pressure on system before repairing or adjusting or disconnecting. • Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands. • Keep all components in good repair.
	<small>101122</small>

⚠ WARNING
Stand clear
<small>101027</small>

Cylinder Locking Strap - Remove before using Post Driver

101202

INSTRUCTIONS

These instructions are for the Model HPD-16 SHC, HPD-22Q SHC, HPD-26Q SHC, HPD-16 SWO, HPD-22Q SWO, and HPD-26Q SWO Hydraulic Post Drivers.

The Models HPD-16 SHC and SWO have the Quick Change Cylinder Cap.

Models HPD-22Q and HPD-26Q (SHC and SWO) have both the Quick Change Cap and the new longer lasting Quick Change spring assemblies.

The hydraulic center mount (SHC Models) are with the driving ram directly behind and in the center of the tractor. A two spool hydraulic valve controls the front to back and the side to side movement for aligning the driving ram to a vertical position. A separate single spool valve controls the raising and lowering of the driving ram.

The hydraulic offset mount (SWO Models) have the driving ram to the left. The driving ram can be telescoped (offset) hydraulically twenty-four (24) inches. This provides easier positioning when driving posts along ditch banks and existing fence lines. A three spool valve controls the vertical aligning and the telescoping (offset) of the driver.

TRACTOR REQUIREMENTS AND PREPARATION

Be sure your tractor is in good working order, particularly the hydraulic system, prior to using the Post Driver. Be sure the tractor hydraulic oil and filter have been serviced according to the tractor manufacturer's recommendations. The return oil from the driver must be connected directly to the tractor hydraulic fill opening – **NOT THE TRACTOR REMOTE OUTLET**. Special return fittings are available, when required, for many popular tractors. Check with your dealer for an application list.

Refer to your tractor owner's manual or dealer to determine if your tractor has an OPEN or CLOSED hydraulic system. The hydraulic valve on the driving ram **MUST** match your tractor hydraulic system. This valve is convertible and is shipped ready for OPEN center systems. See the "maintenance and adjustment" section of this manual for conversion instructions.

Tractor lift arm stabilizer bars, sway chains, or sway blocks must be used to control side movement of the Post Driver. **NOTE:** If your tractor uses top link sensing for the draft control, it will be necessary to lock out the sensing mechanism to minimize front to rear movement of the Post Driver.

The SHC Model Post Drivers have adjustable legs, which should be adjusted to the proper height.

The SWO Models have a weight box and support leg that is non-adjustable. The weight of the driver should be on the legs while driving a post. This makes the driver a more stable unit and eliminates the shock loads on the tractor hitch.

The Model HPD-16 SHC Post Driver can be used on tractors having a Category I or II 3 pt. hitch. The tractor must have a hydraulic system with 3-4 gpm and at least 1500 psi. The Model HPD-16 SHC weighs 853 lbs. and requires a tractor of 35 hp or more. Front tractor weights are needed to counter-balance load.

The Models HPD-16 SWO, HPD-22Q SHC, HPD-22Q SWO, HPD-26Q SHC, and HPD-26Q SWO are for use with Category II tractors. The Category II tractors should have a hydraulic system capable of 6-8 gpm with a minimum 1500 psi. Front tractor weights may be needed to counter-balance load.



CAUTION

Be sure your tractor is in good condition. Read all safety precautions and make sure all operators are familiar with safety rules of operation.



WARNING

- **Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS systems in "locked up" position at all times.**
- **A heavy load can cause instability in driving a tractor. Make sure the front of the tractor is properly counter-balanced with weights. Always drive slowly – especially around turns. An unstable tractor could steer badly and possibly tip over, causing injury or death.**

PACKAGING

The Post Driver is shipped as five (5) bundles.

1. The hydraulic base mount unit, partially pre-plumbed.
2. The driving ram assembly, on a pallet.
3. A hydraulic package for the ram, in a carton.
4. A package for the hydraulic base, in a carton.
5. Post Holder, in a carton.

Inspect these bundles for any obvious signs of damage before attempting to assemble the Post Driver. Unpack all the bundles and lay out the various parts.

ASSEMBLY & MOUNTING

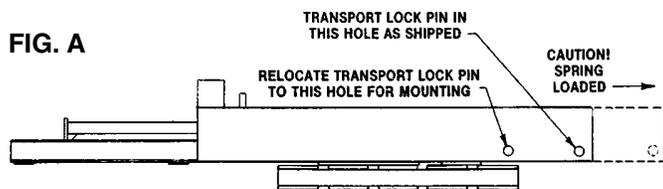
1. Attach the base mount assembly to tractor 3-point. The pull pins are mounted to the inside for shipping. Mount pins to outside for Cat. II or Cat. II quick hitch applications. Lower pin bushings are required for quick hitch applications, available from dealer. Top link pin is furnished by customer.

Quick hitches have some looseness built into them. If the driver has too much front to rear movement in use, try not using the quick hitch.

INSTRUCTIONS (continued)

Adjustable legs will provide stability to the driver by minimizing movement from rear tractor tire bounce and looseness in hitch linkage. The legs will allow the 3 pt. manual mount driver to be self standing for storage.

- The hydraulic base mount is shipped with the hydraulic system partially plumbed and ready to accept the driving ram assembly. The multi-spool valve and mounting plate is detached and shrink wrapped in place. Simply remove the shrink wrapping, swing the mounting plate into position and install the mounting bolts.
- Prepare the driving ram for attaching to the hydraulic base mount. To do this, first lower the driving ram to its lowest transport position. The driving ram is shipped in the upper transport position for compactness. To lower the ram, pull the transport lock pin, allow the ram to lower (approximately 10 inches) and replace the transport lock pin. This should be done with the Driver laying on the shipping pallet. The ram is spring loaded downward. Stand clear of the ram when the pin is removed (see Figure A). **NOTE:** This step of repositioning the driving ram is necessary in order to make the mounting bolts at the correct height when the unit is stood upright for the next step.



- Attach the driving ram assembly to the hydraulic base mount. A chain hoist or forklift can be used to stand the driving ram assembly to its normal (vertical) working position. Take care not to damage the hydraulic cylinder or carriage when lifting the unit. Once the ram assembly is upright, remove the six (6) nuts and lock washers from the mounting bolts.

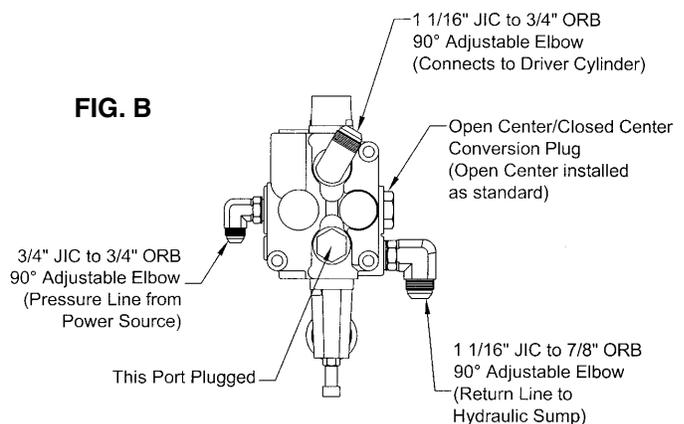
Align the mounting bolts with the six (6) holes in the mounting channel and secure with the nuts and lock washers. The mounting channel on the hydraulic base mount will probably have to be positioned by hand to get the mounting channel and carriage lined up. **NOTE:** One mounting bolt goes into a blind hole and does not get a nut and lock washer. Due to trapped air, it may be necessary to operate the control levers on the multi-spool valve in order to position the mounting channel on the hydraulic base unit. Plastic plugs or hose end caps may have to be removed to allow trapped air in the hydraulic cylinders to escape. **DO NOT ATTEMPT TO CONNECT THE VALVE TO THE TRACTOR AND OPERATE IT AT THIS TIME.**

When properly mounted, the bottom of the driving ram should be resting on the same level surface as the mounting base. This should keep the driving ram assembly in a vertical position. **NOTE:** The driving ram assembly will be somewhat unstable until the hydraulic cylinders are filled with oil once all plumbing is completed.

- Install the hydraulic package. Refer to Figure B for correct location and orientation of components.

Almost all of the hydraulic fittings on the new post drivers have O-ring type connections.

Do NOT use thread sealant on O-ring fittings.



Connect the $\frac{3}{4}$ " I.D. x 24" long hose from the control valve work port to the Post Driver hydraulic cylinder port.

NOTE: The port and end of the 24" hose has a NPT (pipe thread) type connection. Use a good grade of thread sealant at this connection. (Do NOT use Teflon tape.)



WARNING

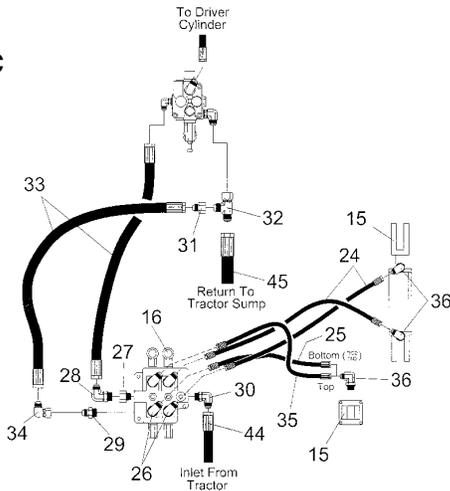
MAKE SURE THAT ALL OPERATING AND SERVICE PERSONNEL KNOW THAT IN THE EVENT HYDRAULIC FLUID PENETRATES THE SKIN, IT MUST BE SURGICALLY REMOVED WITHIN A FEW HOURS BY A DOCTOR FAMILIAR WITH THIS FORM OF INJURY, OR GANGRENE MAY RESULT.

Check the exploded parts drawing in this manual for the correct O-ring adapter fittings and hydraulic fittings for the two (SHC) and three (SWO) spool hydraulic valves.

INSTRUCTIONS (continued)

CENTER MOUNT ASSEMBLY: Connect a $\frac{3}{8}$ " I.D. x 36" long hose (see Figure C, ref. #33) from the inlet side of the ram control valve to the 90° street elbow in the 2 spool valve (see Figure C, ref. #28).

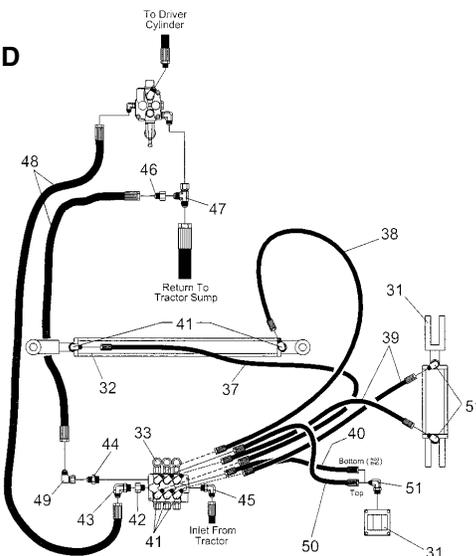
FIG. C



Refer to Figure C and assemble the tee fitting (ref. #32) to the outlet elbow fitting in the single spool ram control valve. Then connect a $\frac{3}{8}$ " I.D. x 36" long hose (ref. #33) from the reducer bushing (ref. #31) to the 90° elbow, (ref. #34) that is connected to the two spool valve.

OFFSET MOUNT ASSEMBLY: Follow the same procedure as described above, but the $\frac{3}{8}$ " I.D. hoses are 48" long (Figure D, ref. #48).

FIG. D



INSTRUCTIONS FOR BOTH: Connect the 1" I.D. x 96" long return line from the bottom of the tee on the ram control valve return directly to the filler opening on the tractor's hydraulic system. On many tractors, the return line can be inserted directly into the filler opening. The hose should be securely tied in place and wrapped with a rag or duct tape to prevent contamination. Special care should be taken to remove the hose when

not in use, to prevent rainwater or dirt entering the opening. Screw a $\frac{3}{4}$ " pipe cap on the hose end to keep it clean. Special filler opening adapter fittings are available for most popular tractor models. Contact your dealer for prices and availability.

NOTE: Due to the necessary discharge rate of hydraulic oil, this line **CANNOT** be connected to the tractor remote outlets. To do so will restrict the drop rate of the driving ram such that it will not properly drive a post.

NOTE: If the 1" x 96" hydraulic oil return hose is too short for your tractor application, you may increase the length by ordering hose extension kit #2504141. Connect the $\frac{1}{2}$ " I.D. x 60" long hose from the inlet side of the multi-spool control valve to one of the tractor hydraulic remote outlets.

NOTE: On both models, route the hoses to the tractor so that they will not be pinched or caught by the movement of the positioning mount. On the offset model, a special hose retaining bracket is provided to retain the hoses.

- Stand clear of the driving ram assembly and raise the completely assembled unit approximately 10 inches with the 3-point of the tractor. The driving ram assembly will probably lean out of its normal position. Operate the hydraulic valve on the tractor so that oil flows from the tractor to the multi-spool valve and returns by the tractor fill opening hose. Tie the tractor hydraulic valve handle into operating position with a tarp strap. The tractor should be operated at an idle until the system is charged with oil. Now operate the hydraulic levers on the multi-spool valve. This should cause the driving ram assembly to pivot, side to side and front to rear. The cylinders will have to be cycled several times to remove all the air from the cylinders and lines. Be sure to check the tractor hydraulic oil level after charging the system. Special orifice fittings have been installed at the hydraulic cylinder ports to restrict the flow and cause the cylinders to operate in a slow, smooth manner.

ALWAYS OBEY SAFETY WARNINGS!

INSTRUCTIONS (continued)

7. Attach the circular (bulls-eye) level as shown in the parts illustration. Adjust the alignment of the level as follows: using a 2' or longer carpenter's level, adjust the driving ram with the multi-spool valve until the ram is plumb front to back and side to side. Tilt the top of the driving ram slightly to the rear to allow for recoil when the ram drops. Now adjust the valve mounting bracket and the bubble level bracket so the level bubble is centered in the level circle (see Figure E), then tighten all bolts.

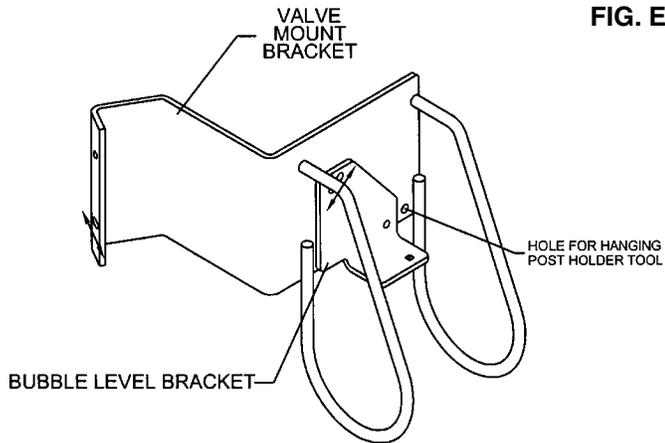


FIG. E



PHOTO K

POST HOLDER MOUNTING

Refer to page 36 and become familiar with the parts of the Post Holder and the description of parts.

Locate the two holes in the left side of the support channel. These holes are directly opposite the valve mount bracket holes.

Bolt the Post Holder Mount weldment to the support channel with the two $\frac{3}{8}$ " x $1\frac{1}{2}$ " hex bolts. (See photo J.)

Assembly the remaining parts of the Post Holder referring to photo K.



PHOTO J

Using the vertical handle on the arm weldment, swing the Post Holder away from the ram and to the left. The arm will go over center and remain to the left side of the post driver.

LUBRICATION

- The Post Driver is designed with "special" polyethylene slide blocks for long trouble-free operation.
- Oil or grease applied to the slide channel will make the operation smoother and if applied after use will help keep rust from forming in the channel.
- Smear grease over the exposed portion of the plated hydraulic cylinder rod after use to help prevent pitting and rust from forming. If Post Driver is going to be stored outside this is very important.

BEFORE YOU START

Review the assembly instructions to be sure the Driver is properly assembled and plumbed correctly for your tractor hydraulic system. The control valve return hose must be connected directly to the tractor hydraulic oil fill opening – NOT to the tractor remote outlets. (**See Assembly Instruction, item #5.**) Refer to the Hydraulic Valve Section (pages 13 & 16) for open-center and closed-center tractor hydraulic system requirements. Be sure the tractor hydraulic oil and filter have been serviced according to the tractor manufacturer's recommendations before using the Post Driver.

Tractor lift arm stabilizer bars, sway chains or sway blocks must be used to control side movement of the Post Driver. Also, if your tractor uses top link sensing for the draft control, it will be necessary to lock out the sensing mechanism to control front to rear movement of the Post Driver.

INSTRUCTIONS (continued)

PRE-OPERATION CHECKLIST

(OWNER/OPERATOR RESPONSIBILITY)

- ____ Review and follow safety rules and safety signs on pages 3 through 10.
- ____ Check that Post Driver is properly and securely attached to tractor.
- ____ Lubricate all grease fitting locations.
- ____ Check that all hardware is properly installed.
- ____ Check that no one enters the area of machine operation. Always keep bystanders at a safe distance from the post driver.
- ____ Know your controls and how to stop tractor, engine and PTO quickly in an emergency. READ THIS MANUAL AND THE ONE PROVIDED WITH YOUR TRACTOR.
- ____ To avoid accident or injury, do not allow anyone to operate this equipment without proper instructions. Any person who operates this equipment must be instructed in and be capable of the safe operation of the tractor, post driver and all controls.

OPERATION

Observe all operating and safety instructions in this manual and those on the Post Driver before using this machine.

1. Position the tractor for driving a post. The hydraulic base should be lowered to the ground before driving the post. Three point hitch lift arm stabilizer bars, sway chains or sway blocks must be used to control side movement of the Driver.
If you have an offset version, the driving ram can be telescoped laterally to position the post.
2. On the hydraulic center mount with adjustable legs, adjust the legs so that when the driver is at the desired height, the legs will be on the ground supporting the weight of the driver.
3. Set the tractor brakes or place the transmission in "PARK." Raise the ram slightly and remove the transport pin. Store the pin in the additional top link pin hole.
4. Align the driving ram vertically by use of the "bulls-eye" bubble level and the multi-spool hydraulic valve handles.

5. Raise the driving ram by lifting up on the control valve handle. **NOTE: Do not allow the ram to continually hit the urethane bumpers at the top of the carriage. Tractors with high volume hydraulic pumps will cause the ram to raise very fast.** If the ram raises too fast, turn the up stroke limit screw into the valve body to limit the amount of handle movement (see Figure F). Tighten the lock nut to keep the limit screw in position. Raise the ram so that it is 18" to 24" above the top of the post. The tractor hydraulic control valve should be tied in the "ON" position so the Driver is controlled solely by the Post Driver control valve.

NOTE: If the operator continually raises the ram so that it hits the bumpers at the top of the carriage, the bumpers and the top support will fail. This wrong operating action will also allow the rod guide (inside the cylinder) to hit the top cap and rod seal. This will damage all of these parts. Operator must pay attention and operate the driver correctly.

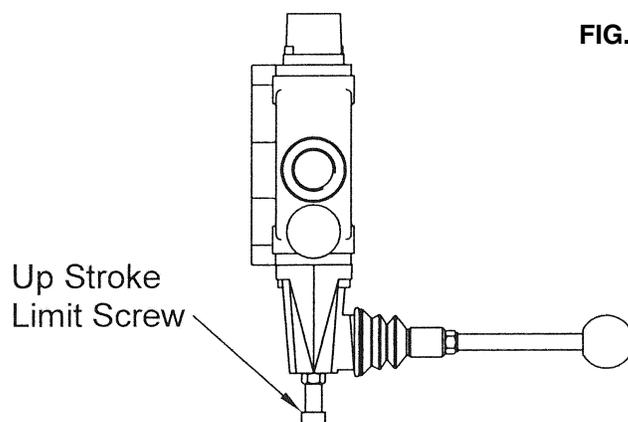


FIG. F

6. Place the post within the driving ram. The back of the post should be against the web of the I-Beam and centered between the flanges. Stabilize the post using the special "Post Holder Tool" provided or the Post Holder Attachment.
- CAUTION**
- NEVER hold the post with your hand. Always use the post holder or the special STEEL T-POST Holder when driving steel T-posts. Order part #814490.**
7. Stand at a 45° angle to the post – not directly in front of the post. Be sure all bystanders are at a safe distance from the Post Driver.
 8. Drop the driving ram by pushing "Full Down" on the control valve handle.

INSTRUCTIONS (continued)

- Repeat raising and dropping the driving ram until the post is to the desired depth. Be sure the ram slide blocks are not "BOTTOMING OUT" on the urethane bumpers. Likewise, do not raise the ram to its extreme up position with each stroke. The ram should normally be raised 18" to 24" above the top of the post. Once the post is deep enough to be stable, it is no longer necessary to hold the post with the "POST HOLDER ATTACHMENT" or "POST HOLDER TOOL." Swing the Post Holder Attachment back and out of the way. Then stand back to the right of the post driver and "DRIVE" the post.
- In dry or light rocky conditions, cutting a point on the post may be beneficial. The point should be centered on the post to prevent the post veering to one side.
- Re-engage the transport lock pin when finished with the job.

OFFSET MODELS ONLY

Special polyethylene wear pads are used to hold the telescoping unit within the tube of the base mount unit. The pads on the top have adjustable steel caps for maintaining a snug fit on the telescoping tube. If excess motion is noticed in use, it may be necessary to tighten the bolts holding the steel caps. Looseness can usually be detected by "rocking" the driving ram assembly front to rear.

NOTE: The driving ram on the offset mount can be rotated to drive the post left of the driver. Always install pin or bolt to secure the rotated position when driving.



CAUTION

Always rotate driving ram back to the rear before transporting driver on any road. This provides the minimum width for road travel.

MAINTENANCE AND ADJUSTMENTS

Make certain the safety and instruction decals are attached to the Post Driver. If they are lost, damaged, or painted over, order replacements.



WARNING

Before servicing the machine, engage the parking brake or place the transmission in "Park," shut off the tractor and remove the key. Relieve all hydraulic pressure in lines.

HYDRAULIC VALVE

The hydraulic control valve supplied with the Post Driver is "convertible" to accommodate both open-center and closed-center tractor hydraulic systems. Consult your tractor owner's manual (specifications section) or your tractor dealer. The control valve is shipped "ready" for open-center hydraulic systems.

NOTE: Failure to make the control valve compatible with your tractor hydraulic system will cause the hydraulic oil to overheat.

VALVE CONVERSION INSTRUCTIONS

The conversion plug for making the control valve compatible with closed-center hydraulic systems is shipped in the hardware box (see Figure G).

Remove the large open-center plug and store it in a safe place. Install the optional closed-center plug from the hardware box. Be sure the O-ring and seal are on the plug before insertion. DO NOT use a thread sealant on the conversion plug.

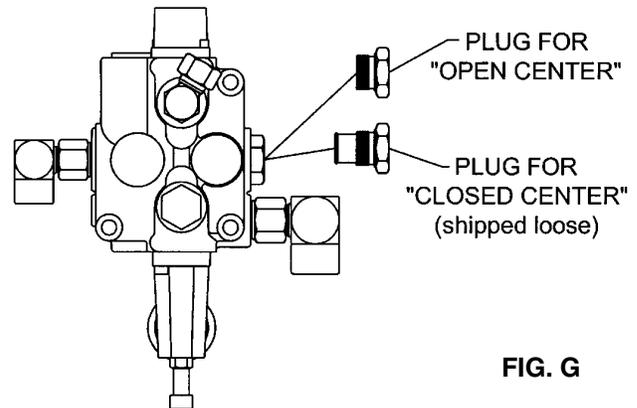
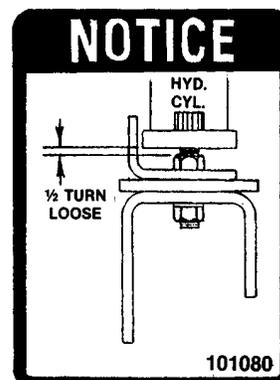


FIG. G

HYDRAULIC CYLINDER BASE ADJUSTMENT – HPD-16

Due to the design of the Driver carriage, it is necessary for both the base and rod end of the hydraulic cylinder to have a slight amount of freedom. This adjustment should only be necessary if the hydraulic cylinder is removed for servicing (see Figure H).



NOTE: These instructions are for the HPD-16 Models only.

FIG. H

INSTRUCTIONS (continued)

MAINTENANCE AND ADJUSTMENTS (continued)

The “Special 7/8” Nut” (Part #815205) has the correct amount of freedom designed in. No adjustment is required at the rod end of the cylinder rod.

NOTE: The lower hydraulic cylinder mounting bolts have stamploc hex nuts ($\frac{3}{8}$ ” on HPD-16). **DO NOT** use regular hex nuts in place of these nuts. They need to be stamploc nuts. Also, on reassembly, there are instructions on the proper adjustment of these bolts. See the section on Hydraulic Cylinder Base and Rod End Adjustment. (Figure H). (HPD-16 Models only.)

DISASSEMBLY – CARRIAGE AND RAM ASSEMBLY

1. Lay the driving ram assembly face down on the floor or on a solid workbench.
2. Remove the transport lock pin. This will allow the ram carriage to move up, thereby relieving the spring tension. Disconnect the upper spring bracket.
3. Remove the lock nut from the top of the cylinder rod using a $1\frac{15}{16}$ ” wrench and a $1\frac{1}{2}$ ” wrench on the step nut and push the rod back into the cylinder.
4. Now remove the hex nuts (or bolts for Models HPD-22Q and HPD-26Q) holding the transport lock pin bracket in place. Slide the carriage down and remove the hydraulic cylinder and springs as a unit from the lower end.
5. The carriage can now be removed from the upper end of the ram assembly.

HYDRAULIC CYLINDER DISASSEMBLY

1. Refer to the exploded view of your model post hole driver and become familiar with the parts and how they are assembled.
2. It is NOT necessary to remove the complete hydraulic cylinder to change any of the internal cylinder parts. These parts can be changed from the top of the cylinder. (See following section on replacing the seal).

NOTE: If you need to replace the rod or rod guide, it may be easier to remove the complete cylinder. This will allow you to place the cylinder in a vise to remove the lower part of the cap (gland) from the cylinder tube.

SPRING REPLACEMENT – HPD-16 MODELS ONLY

1. Lower the driving ram so the springs are in their relaxed position. Remove the upper spring bracket from the square tube by removing the $\frac{3}{8}$ ” bolt holding it in place.

2. Remove the upper spring clip from the spring bracket by rotating the clip and sliding it out the keyhole slot in the bracket.
3. Insert a screwdriver in the spring clip and screw it out of the spring coils. The spring can be removed from the lower spring clip by rotating the spring.

4. Install new spring clips by inserting a screwdriver in the end coil and screwing the clip onto the first two coils (see Figure I). Use a large pair of adjustable (water pump) pliers and close the ends of the spring clips to retain them on the spring.

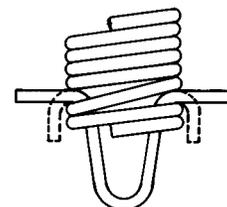


FIG. I

5. To replace the springs, it is necessary to remove the top spring anchor (#814408) and to remove the two lower bolts that hold the lower end of the main hydraulic cylinder. Removing these bolts will allow the removal of the lower spring bracket (#814430 on HPD-16).

QUICK-CHANGE SPRING REPLACEMENT – HPD-22Q and 26Q MODELS

The Models HPD-22Q and HPD-26Q have the new longer lasting springs with the new Quick Change spring assembly mounting.

The following procedure will instruct how to replace the spring assemblies.

1. Lower the driving ram so the springs are in their relaxed position. Remove the nut on top of the upper spring bracket on the threaded rod of the spring assembly to be replaced.
2. On the top rear of the driving ram are two tabs welded to the ram I-beam. Raise the driving ram until the holes in these tabs are slightly above the top of the two vertical brace bars on the back of the carriage.

Slide the transport lock pin through the two welded tabs. The transport pin will be just above the two vertical brace bars. This will prevent any accidental downward movement of the driving ram.

3. Using a ratchet with a $\frac{3}{4}$ ” socket, loosen the $\frac{1}{2}$ ” bolt connecting the spring assembly to the spring mount plate that is welded on the hydraulic ram cylinder.

NOTE: Just loosen this bolt so the spring assembly can slide out of the slotted mount plate.

4. Once the bottom of the spring assembly is free from the slotted mount plate, the spring assembly can be removed from the post driver thru the top of the driving ram.

INSTRUCTIONS (continued)

SPRING ASSEMBLY REPLACEMENT (continued)

- Slide the new spring assembly into the driver from the top and work the bottom part into the slotted mount plate. Make sure that the spring assembly is all the way into the slot and that the flat washer is under the mount plate. Then tighten the 1/2" special coated bolt connecting the spring assembly to the mount plate.
- Remove the transport pin (the driving ram may have to be raised slightly to free the pin).
- Carefully lower the driving ram until you can place the threaded rod (on top of the spring assembly) into the hole of the upper spring vibration mount. Raise or lower the ram so that enough of the threaded rod is exposed and you can install the top locking nut.
- Adjust the nuts on the threaded rod at the top of the spring assembly. With the driving ram all the way down, there should be just a little tension on the spring. Make sure both springs are adjusted so they are even.

NOTE: The nuts above and below the vibration mount must be tight against the mount. (No movement of the threaded rod.)

CAP SEAL REPLACEMENT

Tools required:

- 2 1/8" wrench or 18" crescent wrench
- Seal pick or small flat blade screwdriver
- 1 1/2" wrench or 12" crescent wrench
- 1 5/16" wrench or 12" crescent wrench
- 5/8" wrench or 12" crescent wrench
- Anti-seize thread compound

The procedure for changing the seal is as follows:

- The driver must be connected to the tractor/skid steer for stability. The tractor engine turned off.
- Lock the driver in the upper lock position by inserting the transport lock pin through the bottom hole of the driver ram (Photo L).
- Remove the top lock nut from the rod using the 1 5/16" wrench and the 1 1/2" wrench on the step nut (Photo M).



PHOTO L



PHOTO M

- Lower the cylinder with the valve (Photo N).
- Remove the step nut from the cylinder rod using the 1 1/2" wrench and the 5/8" wrench on the rod flats (Photo O).
- Unscrew the top of the cap from the bottom of the cap (Photo P). (2 1/8" wrench or 18" crescent wrench.)



PHOTO N



PHOTO O

- Remove the old seal with a flat blade screw driver or seal pick.
- Install the new seal over the rod and start one edge into the cap.
- Carefully using a flat blade screw driver, gently work the seal into the bottom of the cap (Photo Q).

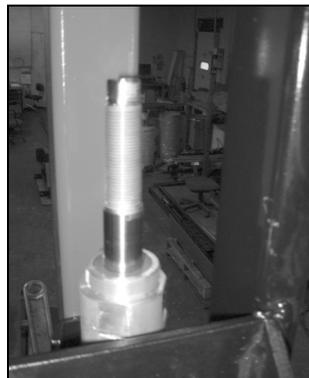


PHOTO P



PHOTO Q

- Reinstall the top of the cap using approx. 50 FT/LB of torque.
- Never use any type of thread sealant on the threads between the top cap and bottom gland of the cap and seal assembly. This will destroy the aluminum threads when trying to remove. Thread sealant is only needed on the bottom threads of the cap (gland) to the cylinder tube weldment.
- Reapply anti seize on threads of rod.
- Reinstall step nut to bottom of threads on rod.
- Pull cylinder rod up to the driver mount plate and reinstall top nut to approx. 80 FT/LB of torque.
- The driver is now ready to drive posts.

POST DRIVER SPECIFICATIONS

MODEL –	HPD-16 SHC (Center)	HPD-16 SWO (Offset)	HPD-22Q SHC (Center)	HPD-22Q SWO (Offset)	HPD-26Q SHC (Center)	HPD-26Q SWO (Offset)
Maximum Post Size	5" x 9'	5" x 8'	8¾" x 10'	8¾" x 9'	11" x 10'	11" x 9'
Impact at Full Stroke	32,000 lbs.		80,000 lbs.		110,000 lbs.	
Impact at Half Stroke	16,000 lbs.		40,000 lbs.		55,000 lbs.	
Minimum Tractor Size	30-35 hp	40-45 hp	30-35 hp	40-45 hp	50-55 hp	
Rear Hitch Type	Cat. I/II			Cat. II 3 pt.		
Minimum Hydraulics Req.	3 - 4 gpm		6 - 8 gpm – 1500 psi			
Quick Change Seal	Yes		Yes			
Quick Change Springs	No		Yes			
Operating Range	50" to 116"	50" to 108"	50" to 128"	50" to 120"	50" to 128"	50" to 120"
Tilt Adjust. – front/back	17° each way from vertical					
Tilt Adjust. – side/side	20° each way from vertical					
Post Driver Offset		46" left of Tractor Center		46" left of Tractor Center		46" left of Tractor Center
Maximum Side Adjust.		24" to left		24" to left		24" to left
Valve	Two Spool	Three Spool	Two Spool	Three Spool	Two Spool	Three Spool
No. of Cylinder(s)/Size	Two 3" x 6"	Two 3" x 6" One 2" x 24"	Two 3" x 6"	Two 3" x 6" One 2" x 24"	Two 3" x 6"	Two 3" x 6" One 2" x 24"
Shipping Weight	875 lbs.	1683 lbs.	1035 lbs.	1878 lbs.	1215 lbs.	2194 lbs.
Stabilizer Box Filled		Yes		Yes		Yes

STORING THE POST DRIVER

Lower the ram to the lowest position and engage the transport lock pin. This position will have the hydraulic cylinder rod fully retracted into the cylinder and will be self-protecting.

Smear grease over the exposed portion of the plated hydraulic cylinder rod to prevent pitting and rust from forming.

It is recommended to apply grease or oil to any exposed portion of the tilt cylinders to help prevent rust from forming.

Be sure to cap the open return line hose end to prevent contamination during storage. Lubricate all grease fittings prior to storage.

Inside storage is preferred to prevent deterioration of the springs, hoses, etc. For safety, the Driver should be securely blocked for stability.

To store the hydraulic center mount with adjustable legs, locate the transport locking pin into the higher hole location in the ram and then adjust legs to same height.

NOTE: When storing the offset models, rotate the ram to the rear. This provides the most stable position for storing.

Make sure driver will be located on a solid surface and in a location away from children, animals, or traffic area.

TROUBLE-SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	POSSIBLE REMEDY
DRIVER DOES NOT DRIVE A POST	1. The hydraulic valve return line is connected to a tractor remote outlet and/or a quick coupler is being used.	Connect the return line directly to the tractor reservoir filler opening.
	2. The ram may be binding in the carriage.	Carriage slide blocks may need lubrication or replacement.
	3. Carriage springs may be disconnected or broken.	Check springs and replace.
	4. Ground may be too dry or hard.	Pointing the post may help. Otherwise, wait for rain.
	5. Post may be encountering a rock.	Relocate post 6-8 inches and try again. Pointing post may help in light, rocky soil.
	6. Remote hydraulic connection fittings not compatible.	Check for proper fitting.
DRIVING RAM WILL NOT RAISE OR RAISES SLOWLY	1. Hydraulic valve may be improperly plumbed.	See assembly instructions.
	2. Post driver control valve handle "UP" limit screw may need adjustment.	See Figure F page 15.
	3. Carriage may be binding.	Check for broken springs, worn slide blocks or other obstructions.
	4. Hydraulic cylinder rod guide (piston) may be excessively worn.	Replace rod guide.
	5. Tractor hydraulic system may not be supplying rated pressure (usually 1500 to 2250 PSI).	Consult your tractor dealer.
	6. Worn, damaged, insufficient, or inadequate pump.	Repair or replace hydraulic pump.
	7. Hydraulic valve on post driver is not compatible with tractor hydraulic system.	See Hydraulic Valve section in this manual.
	8. Hydraulic valve on post driver may be leaking.	Repair or replace valve.
	9. Carriage may be bent due to hitting overhead object.	Straighten or replace carriage assembly.
	10. Insufficient oil in system.	Service the hydraulic reservoir.
	11. Hose ends not completely engaged.	Check hose coupling and engage properly.
	12. Air in hydraulic lines.	Cycle auxiliary hydraulic system several times to remove air from lines.
	13. Tractor engine rpm too low.	Increase engine speed.

TROUBLE-SHOOTING GUIDE (continued)

PROBLEM	POSSIBLE CAUSE	POSSIBLE REMEDY
POST VEERS OFF AT AN ANGLE WHILE BEING DRIVEN	1. Top of post is not cut “square,” causing the post to drive at an angle.	Re-cut top of post “square.”
	2. Bottom of post is cut at an angle or post is pointed off-center.	Re-cut bottom of post.
	3. Tractor 3 pt. may be moving sideways.	Install lift arm stabilizer bars, sway chains or sway blocks to limit lift arm movement.
	4. Tractor may have “Top Link Load Sensing” upper link.	Install pin to “lock out” sensing mechanism movement (usually Ford/New Holland and M-F).
	5. Tractor has moved slightly while driving post.	Always set brakes and use extra care on slopes.
	6. Post may have encountered a rock or large root.	Post may have to be relocated.
	7. Ground may be too dry or hard.	Point post or may have to wait until it rains.
HYDRAULIC OIL OVERHEATS	1. Oil level low.	Check oil level in power unit reservoir.
	2. Dirty filters.	Change oil and filters in power unit per manufacturer’s recommendations.
	3. Reservoir of power unit too small.	Allow time for oil to cool down.
	4. Hydraulic valve on post driver may not be compatible with tractor hydraulic system.	See Hydraulic Valve section in this manual.
HYDRAULIC HOSE FAILURE	1. Hose being pinched.	Reroute hose and fasten out of harms way.
	2. Hoses are worn or frayed.	Replace hose.
	3. Hydraulic relief pressure on power unit too high.	Adjust relief pressure (if possible) or change power unit.
OIL SQUIRTS OUT OF RETURN LINE ORIFICE IN TRACTOR	1. Return line not properly secured with wire or tarp strap.	Secure return line properly.
	2. Wrong tractor return line opening is being used.	Check tractor for alternate return opening.
	3. Wrong return line fitting being used.	Check and get correct fitting.
	4. Tractor has high volume pump.	Reduce tractor engine rpm.

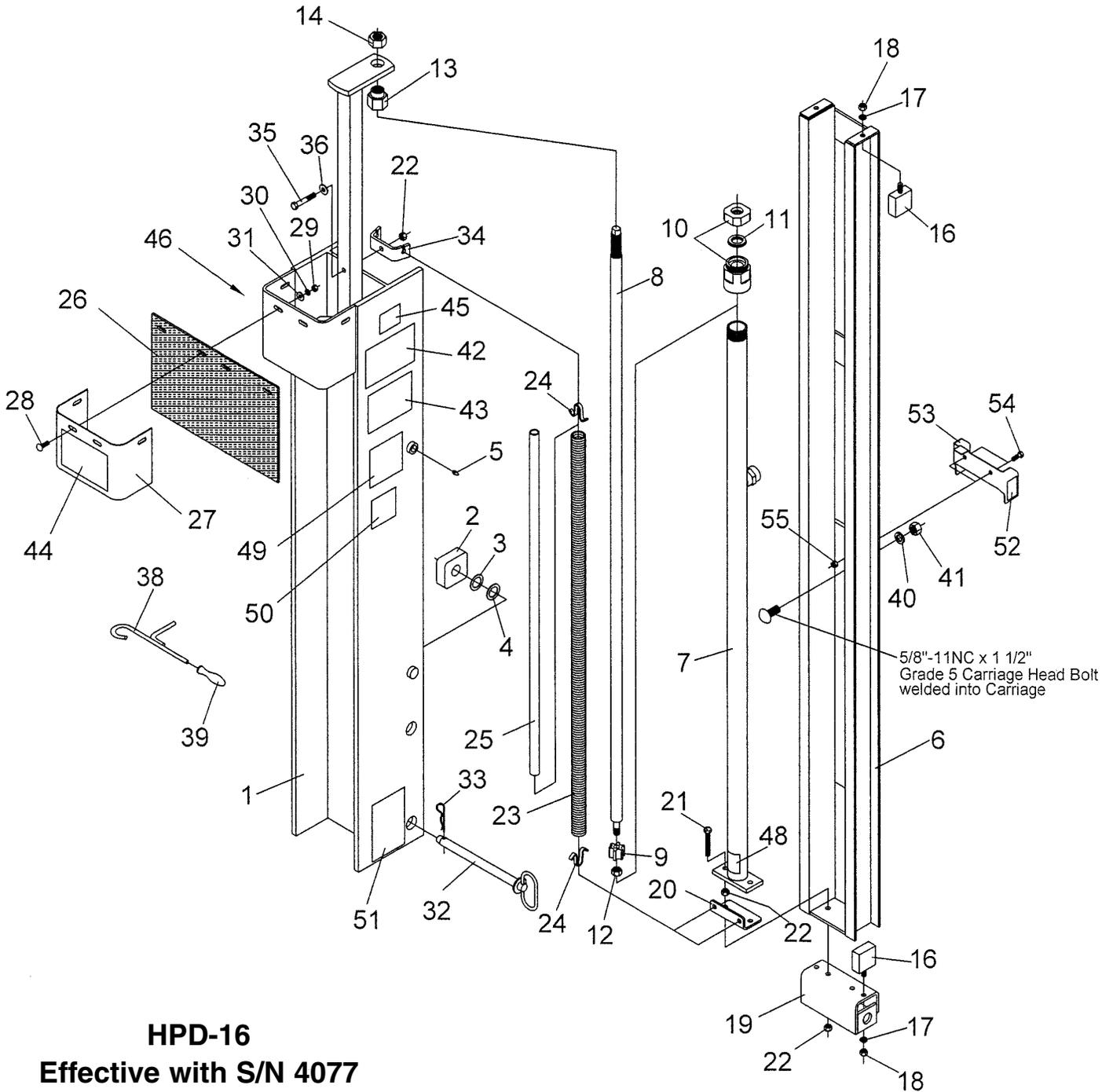
TROUBLE-SHOOTING GUIDE (continued)

PROBLEM	POSSIBLE CAUSE	POSSIBLE REMEDY
DRIVER RAM RAISES VERY FAST AND HITS TOP URETHANE BUMPERS	1. Post driver control valve "UP" limit screw needs adjusting.	Adjust limit screw (see page 15).
	2. Tractor model has high volume hydraulic oil pump.	Set tractor throttle at lower speed to reduce volume of oil or if necessary, install an orifice in line to reduce volume of oil.
	3. Operator continuously raising ram to the full height.	Only raise ram 18-20 inches to achieve full hitting force. Retrain operator.
DRIVER HAS EXCESSIVE MOVEMENT OR BOUNCE	1. Top of post is not cut "square," causing the driver to veer off at an angle.	Re-cut top of post "square."
	2. Tractor 3 pt. may be moving sideways.	Install lift arm stabilizer bars, sway chains or sway blocks to limit lift arm movement.
	3. Tractor may have "Top Link Load Sensing" upper link.	Install pin to "lock out" sensing mechanism movement (usually Ford/New Holland and M-F).
	4. Adjustable legs on 3 pt. mount are not setting firmly on the ground.	Lower 3 pt. hitch or adjust legs.
	5. Springs may be disconnected or broken.	Check and repair or replace.
	6. Ground may be too dry or hard.	Pointing the post may help. You may have to wait until it rains if ground is extremely hard and dry.
	7. Post may be encountering a rock.	Relocate post 6-8 inches and try again. Pointing post may help in light, rocky soil.
	8. Driver ram may be improperly angled.	If top of ram is angled away from post, ram will veer off post. Re-adjust ram angle.
	9. Using a Quick-Hitch.	May have to remove Quick-Hitch and connect directly to 3 pt. arms.
	10. Tractor may not be large enough to handle driver.	Use larger, heavier tractor.
	11. Offset model not setting on ground.	Lower 3 pt. or block under weight box and leg.
SPRING AND/OR SPRING CLIP BREAKAGE	1. Operator is continuously raising the ram to the full height.	It is only necessary to raise the ram 18-20 inches to achieve full hitting force. Retrain operator.
	2. Springs are cold.	In colder temperatures, it will help to "warm-up" or "season" the springs by first only raising the ram 6-8 inches, then 12-16 inches, then normal hitting height. This allows the spring steel to warm-up and not be subjected to full stretch when cold.
	3. Springs and clips are a wear item on post drivers. It is expected that these parts will have to be replaced depending on length of use and when being subjected to "hard driving" conditions.	

TROUBLE-SHOOTING GUIDE (continued)

PROBLEM	POSSIBLE CAUSE	POSSIBLE REMEDY
OFFSET DRIVER ASSEMBLY AND TELESCOPING TUBE WILL NOT MOVE	1. Special polyethylene wear pads adjusted too tight.	Adjust wear pads.
	2. Check plumbing.	Make sure hoses and fittings are correct. (See page 13.)
	3. Check tractor hydraulic pressure.	Check and adjust.
<hr/>		
OFFSET RAM AND CARRIAGE ASSEMBLY WILL NOT MOVE OR ONLY IN ONE DIRECTION	1. Dirt in orifice fitting.	Remove and clean orifice.
	2. Plumbed incorrectly.	Clean and correct. (See page 13.)
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OFFSET RAM AND CARRIAGE HAVE EXCESSIVE FORE AND AFT MOVEMENT	1. Special polyethylene wear pads in slide tube need adjusting.	Adjust or replace wear pads.
	2. SEE: Driver has excessive movement or bounce section.	
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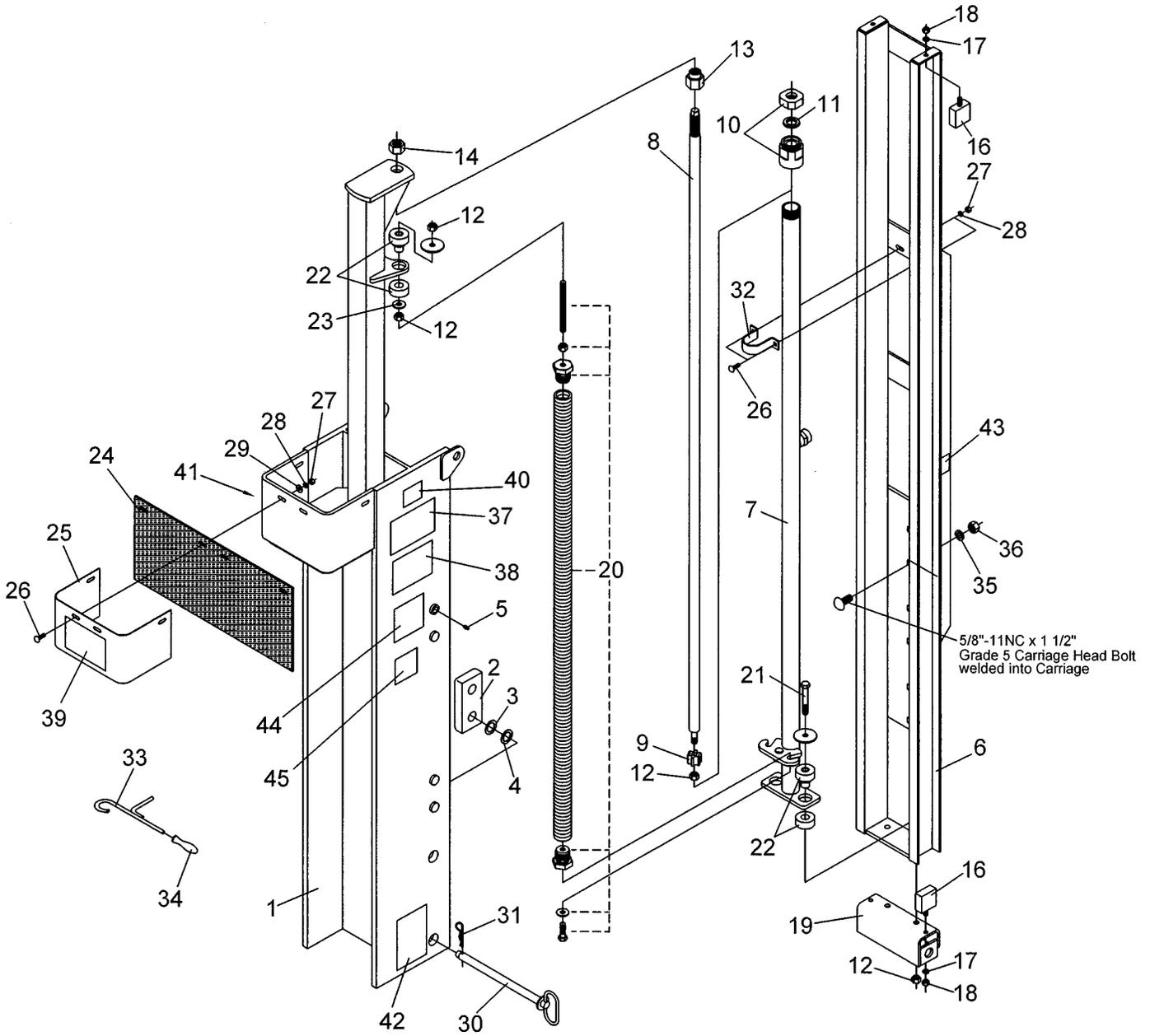
HPD-16 PARTS DRAWING



HPD-16 PARTS LIST

Ref. No.	Part No.	Description	No. Req'd.
1	814401	Driving Ram Weldment	1
2	814551	Guide Block	4
3	2504132	Machinery Bushing 1"ID x 18 Ga.	Var.
4	2504110	Machinery Bushing 1"ID x 14 Ga.	Var.
5	2504049	Drive Zerk 5/16"	2
6	814411	Carriage Weldment	1
	815165	Complete Cylinder Assembly (Items #7 thru #14)	1
7	814417	Tube, Hydraulic Cylinder	1
8	815166	Rod, Hydraulic Cylinder	1
9	814422	Rod Guide, Hydraulic Cylinder	1
10	815170	End Cap Assembly w/Rod Seal	1
11	814523	Rod Seal (only)	1
12	2500054	Nut 1/2"-13NC Stamplock Hex	1
13	815205	Special Step Nut 7/8"-14NF	1
14	2500017	Nut 7/8"-14NF Full Hex	1
16	814426	Bumper, Urethane	4
17	2502008	Washer 3/8" Springlock	4
18	2500004	Nut 3/8"-16NC Full Hex	4
19	814427	Transport Lock Weldment	1
20	814430	Lower Spring Bracket	1
21	2503198	Bolt 3/8"-16NC x 2 1/2" Gr. 8 Full Thread	2
22	2500055	Nut 3/8"-16NC Stamplock Hex	5
23	814431	Spring, Driving Ram	2
24	814432	Clip, Spring	4
25	814581	Pipe, Plastic Stabilizing	2
26	814433	Rubber Guard	1
27	814629	Guard Retainer	1
28	2503266	Bolt 5/16"-18NC x 1 1/4" Carriage Head	4
29	2500011	Nut 5/16"-18NC Full Hex	4
30	2502011	Washer 5/16" Springlock	4
31	2501012	Washer 5/16" Flat	4
32	814488	Pin, Transport Lock	1
33	590188	Hair Clip Pin 5/32" (AK-2705)	1
34	814408	Upper Spring Bracket	1
35	2503201	Bolt 3/8"-16NC x 2 1/4" Gr. 5 Hex Head	1
36	2501004	Washer 3/8" Flat	1
38	814476	Post Holder w/Handle	1
39	2504129	Handle, Post Holder	1
40	2502007	Washer 5/8" Springlock	6
41	2500013	Nut 5/8"-11NC Full Hex	6
42	101056	Safety Sign - Safety Instructions	1
43	101057	Safety Sign - Warning (Set Brake)	1
44	101058	Safety Sign - Warning (Avoid Injury)	1
45	101078	Safety Sign - Caution (Safety Glasses)	1
46	101027	Safety Sign - Warning (Stand Clear)	1
48	101080	Safety Sign - Notice (1/2 Turn Loose)	1
49	101122	Safety Sign - Warning (Hi-Pressure)	1
50	101358	Safety Sign - 811 (Know what's below)	1
51	101318	Safety Sign - Do Not Raise	1
52	101319	Safety Sign - Red Line	2
53	815277	Holder, Limit Decal	1
54	2503038	Bolt 5/16"-18NC x 1" Hex Head Gr. 2	2
55	2500046	Nut 5/16"-18NC Hex Nylock	2

HPD-22Q PARTS DRAWING

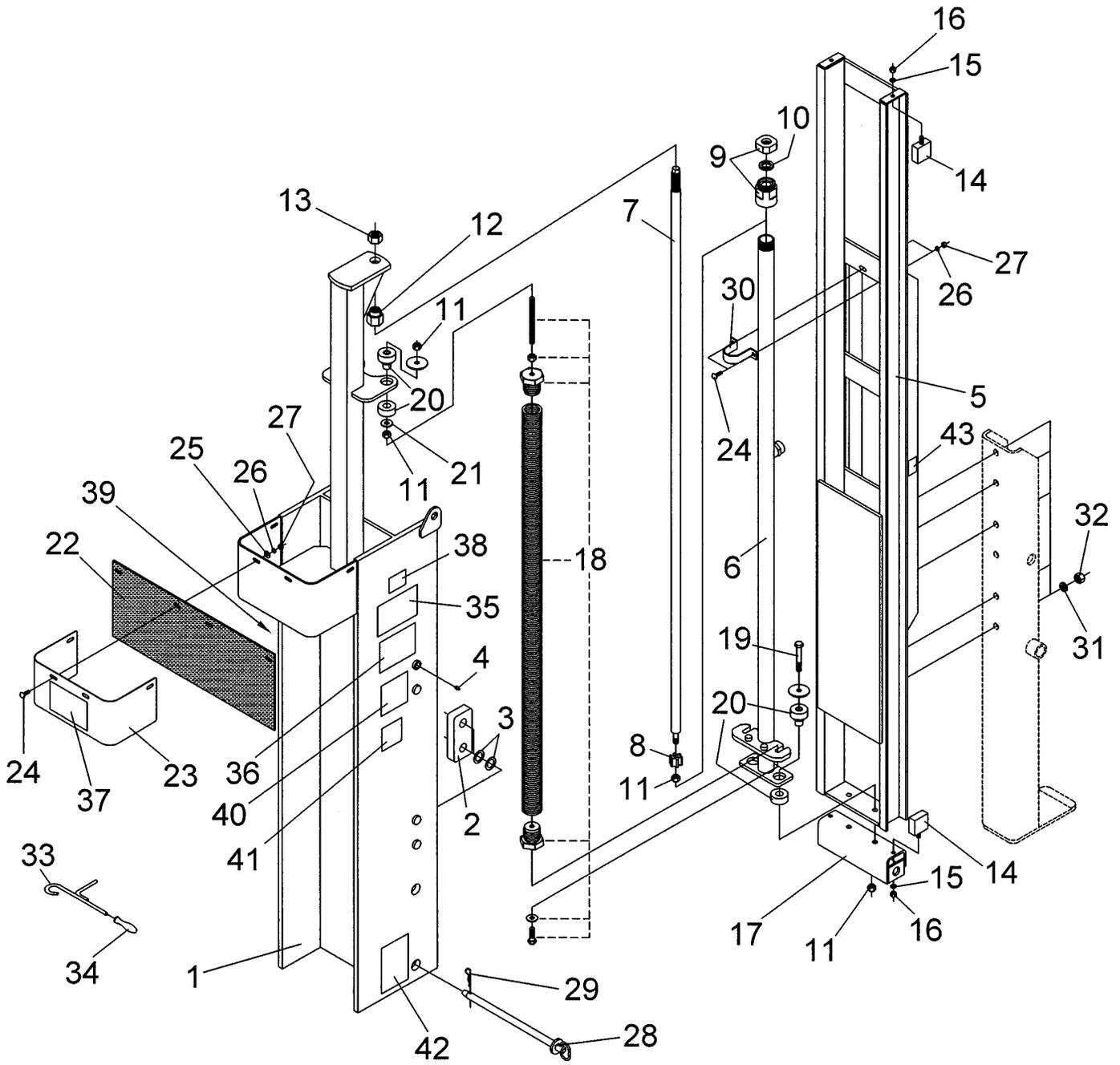


HPD-22Q
Effective with S/N 5501 and above

HPD-22Q PARTS LIST

Ref. No.	Part No.	Description	No. Req'd.
1	815242	Driving Ram Weldment	1
2	814549	Guide Block	4
3	2504132	Machinery Bushing 1"ID x 18 Ga.	Var.
4	2504110	Machinery Bushing 1"ID x 14 Ga.	Var.
5	2504049	Drive Zerk 5/16"	2
6	815235	Carriage Weldment	1
	815240	Complete Cylinder Assembly (Items #7 thru #14)	1
7	815239	Tube, Hydraulic Cylinder	1
8	815204	Rod, Hydraulic Cylinder	1
9	814422	Rod Guide, Hydraulic Cylinder	1
10	815170	End Cap Assembly w/Rod Seal	1
11	814523	Rod Seal (only)	1
12	2500054	Nut 1/2"-13NC Stamplock Hex	7
13	815205	Special Step Nut 7/8"-14NF	1
14	2500017	Nut 7/8"-14NF Full Hex	1
16	814426	Bumper, Urethane	4
17	2502008	Washer 3/8" Springlock	4
18	2500004	Nut 3/8"-16NC Full Hex	4
19	815231	Transport Lock Weldment	1
20	815234	Spring Assembly	2
21	2503264	Bolt 1/2"-13NC x 3 1/2" Hex Head Gr. 5	2
22	815246	Mount, Vibration - w/Washer	4
23	2501003	Washer 1/2" Flat	2
24	814533	Rubber Guard	1
25	814626	Guard Retainer	1
26	2503266	Bolt 5/16"-18NC x 1 1/4" Carriage Head	6
27	2500011	Nut 5/16"-18NC Full Hex	6
28	2502011	Washer 5/16" Springlock	6
29	2501012	Washer 5/16" Flat	4
30	814536	Pin, Transport Lock	1
31	590188	Hair Clip Pin 5/32" (AK-2705)	1
32	814543	Cylinder Stabilizer Strap	1
33	814476	Post Holder w/Handle	1
34	2504129	Handle, Post Holder	1
35	2502007	Washer 5/8" Springlock	6
36	2500013	Nut 5/8"-11NC Full Hex	6
37	101056	Safety Sign - Safety Instructions	1
38	101057	Safety Sign - Warning (Set Brake)	1
39	101058	Safety Sign - Warning (Avoid Injury)	1
40	101078	Safety Sign - Caution (Safety Glasses)	1
41	101027	Safety Sign - Warning (Stand Clear)	1
42	101318	Safety Sign - Do Not Raise	1
43	101319	Safety Sign - Red Line	2
44	101122	Safety Sign - Warning (Hi-Pressure)	1
45	101358	Safety Sign - 811 (Know what's below)	1

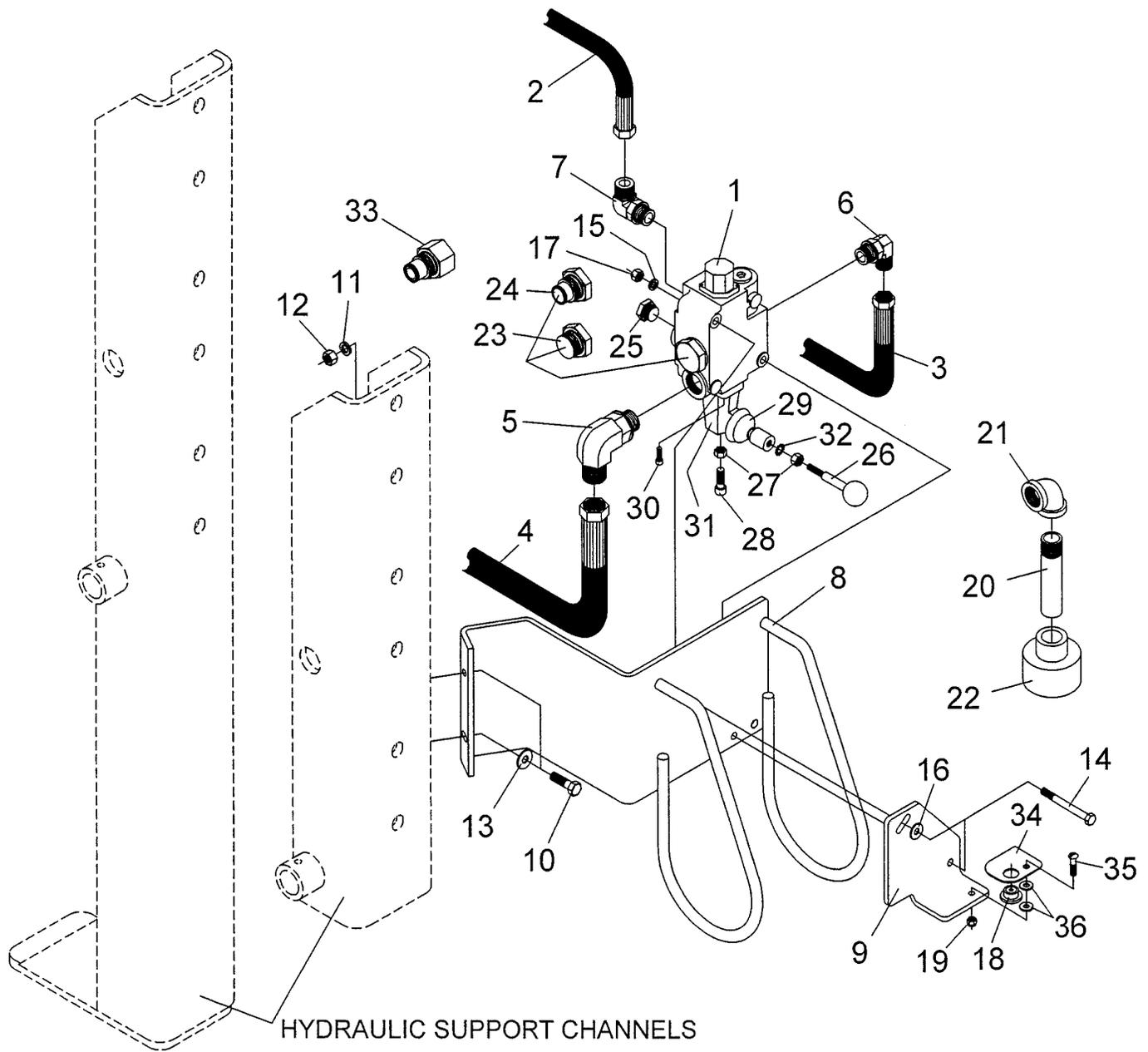
HPD-26Q PARTS DRAWING



HPD-26Q PARTS LIST

Ref. No.	Part No.	Description	No. Req.
1	815353	Driving Ram (DLM-26Q)	1
2	814549	Channel Guide - Double	4
3	2504132	Machinery Bushing, 18 Ga. 1" I.D.	8
4	2504049	Drive Zerk 5/16"	2
5	815344	Carriage Weldment (DLM-26Q)	1
	815354	Complete Cylinder Assembly (#6 thru #13)	1
6	815347	Tube, Hydraulic Cylinder	1
7	815204	Rod, Hydraulic Cylinder	1
8	814422	Guide, Hydraulic Cylinder Rod	1
9	815170	End Cap Assembly w/Rod Seal	1
10	814523	Rod Seal (only)	1
11	2500054	Nut 1/2"-13NC Hex Stamplock	7
12	815205	Special Step Nut 7/8"-14NF	1
13	2500017	Nut 7/8"-14NF Full Hex	1
14	814426	Bumper, Urethane	4
15	2502008	Washer 3/8" Springlock	4
16	2500004	Nut 3/8"-16NC Full Hex	4
17	815341	Transport Lock Bracket	1
18	815276	Spring Assembly	2
19	2503264	Bolt 1/2"-13NC x 3 1/2" Hex Head Gr. 5	2
20	815246	Mount, Vibration - w/Washer	4
21	2501003	Washer 1/2" Medium Flat	2
22	814993	Guard, Rubber	1
23	814994	Retainer, Rubber Guard	1
24	2503266	Bolt 5/16"-18NC x 1 1/4" Carriage Head	6
25	2501012	Washer 5/16" Flat	4
26	2502011	Washer 5/16" Springlock	6
27	2500011	Nut 5/16"-18NC Full Hex	6
28	814995	Pin, Transport Lock	1
29	590188	Hair Clip Pin (AK-2705)	1
30	814543	Strap, Cylinder Stabilizer	1
31	2502007	Washer 5/8" Springlock	5
32	2500013	Nut 5/8"-11NC Full Hex	5
33	814476	Post Holder with Handle	1
34	2504129	Handle, Post Holder	1
35	101056	Safety Sign-Safety Instructions	1
36	101057	Safety Sign-Warning (Set Brake Securely)	1
37	101058	Safety Sign-Warning (Avoid Serious Injury)	1
38	101078	Safety Sign-Caution (Safety Glasses)	1
39	101027	Safety Sign-Warning (Stand Clear)	1
40	SW700	Safety Sign-Warning (High Pressure Fluid)	1
41	101358	Safety Sign-811 (Know what's below)	1
42	101318	Safety Sign-Do Not Raise	1
43	101319	Safety Sign-Red Line	2

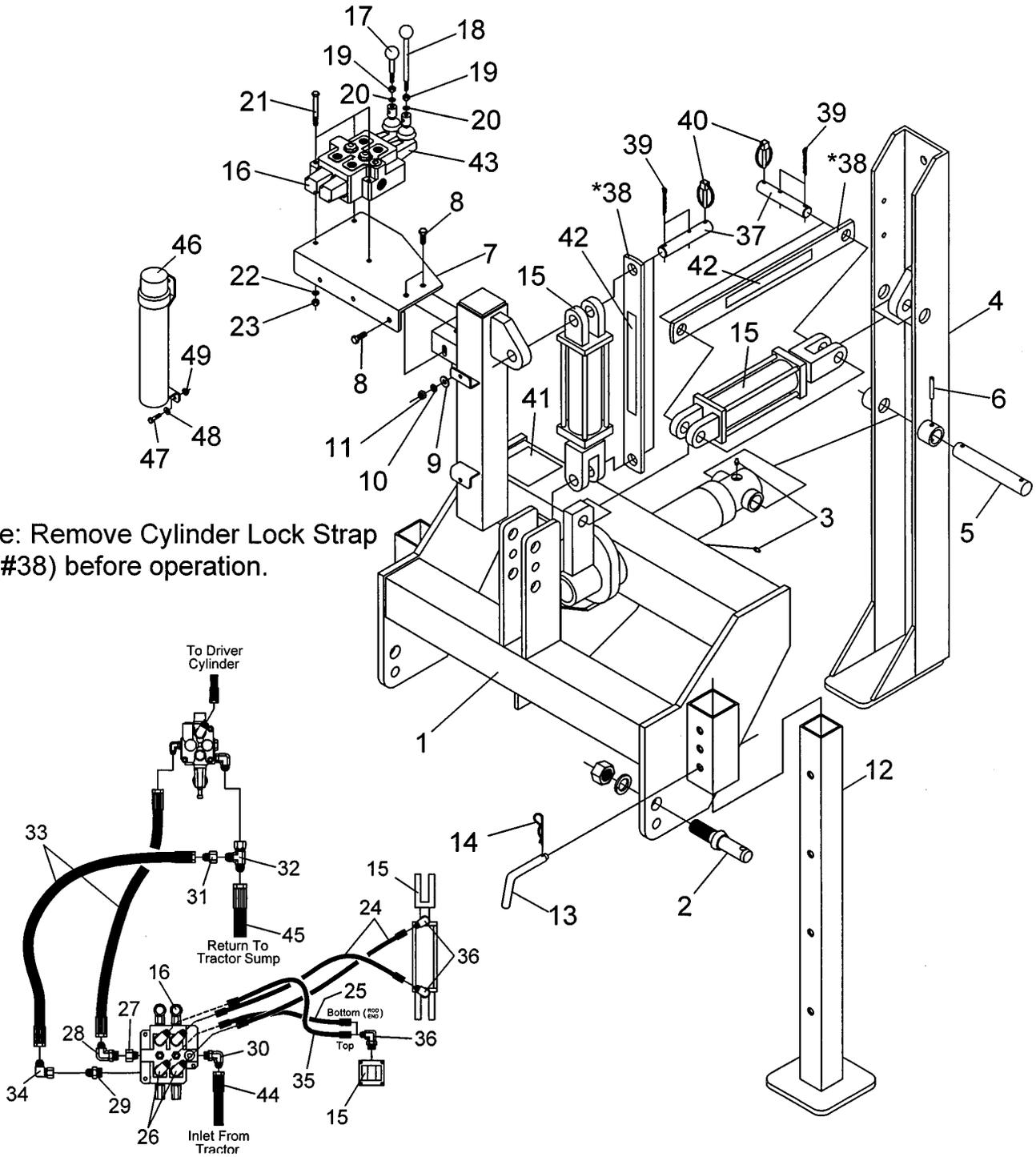
HYDRAULIC CONTROL VALVE AND MOUNTING BRACKET PARTS DRAWING



HYDRAULIC CONTROL VALVE AND MOUNTING BRACKET PARTS LIST

Ref. No.	Part No.	Description	No. Req'd.
1	815080	Valve, Hydraulic	1
2	2505743	Hose, Cylinder 3/4" ID x 24" Double Braid	1
3	2505744	Hose, Pressure 1/2" ID x 60" Double Braid	1
4	2505742	Hose, Return 1" ID x 96" Single Braid	1
5	2505750	Elbow, 1 1/16"-12 JIC to 7/8"-14 O-Ring	1
6	2505737	Elbow, 3/4"-16 JIC to 3/4"-16 O-Ring	1
7	2505749	Elbow, 1 1/16"-12 JIC to 3/4"-16 O-Ring	1
8	814647	Bracket, Valve Mount	1
9	814643	Plate, Level Mount	1
10	2503020	Bolt 3/8"-16NC x 1 1/4" Hex Head Gr. 2	2
11	2502008	Washer 3/8" Springlock	2
12	2500004	Nut 3/8"-16NC Full Hex	2
13	2501004	Washer 3/8" Flat	1
14	2503114	Bolt 5/16"-18NC x 3" Hex Head Gr. 2	2
15	2502011	Washer 5/16" Springlock	2
16	2501012	Washer 5/16" Flat	1
17	2500011	Nut 5/16"-18NC Full Hex	2
18	814486	Level, Bubble	1
19	2500006	Nut 1/4"-20NC Nylock Hex	1
	814496	Return Adapter Assembly (Includes #20-#22)	1
20	814498	Center Tube	1
21	2504139	Elbow 3/4" NPT 90° Black	1
22	815100	Adapter Shield	1
23	815081	Open Center Plug	1
24	815082	Closed Center Plug	1
25	815083	Plug, 3/4"-16 O-Ring (SAE 8)	1
26	815087	Handle, Valve	1
27	2500088	Nut, M8 Hex	2
28	2503296	Screw, Limit M8 x 25 Socket Head Gr. 8.8	1
29	815103	Rubber Boot	1
30	2503337	Screw, M5m x 0.8 x 16mm Socket Head Gr. 12.9	2
31	815089	Valve Operator (Includes #27 - #30)	1
32	2502023	Washer, External Star 8mm	1
33	815086	(Option) Power Beyond Adapter - 1.415 Hex AF	1
34	815209	Plate, Level Clamp	1
35	2503009	Bolt 1/4"-20NC x 1" Round Head	1
36	2501006	Washer 1/4" Medium Flat	2

HYDRAULIC CENTER MOUNT PARTS DRAWING

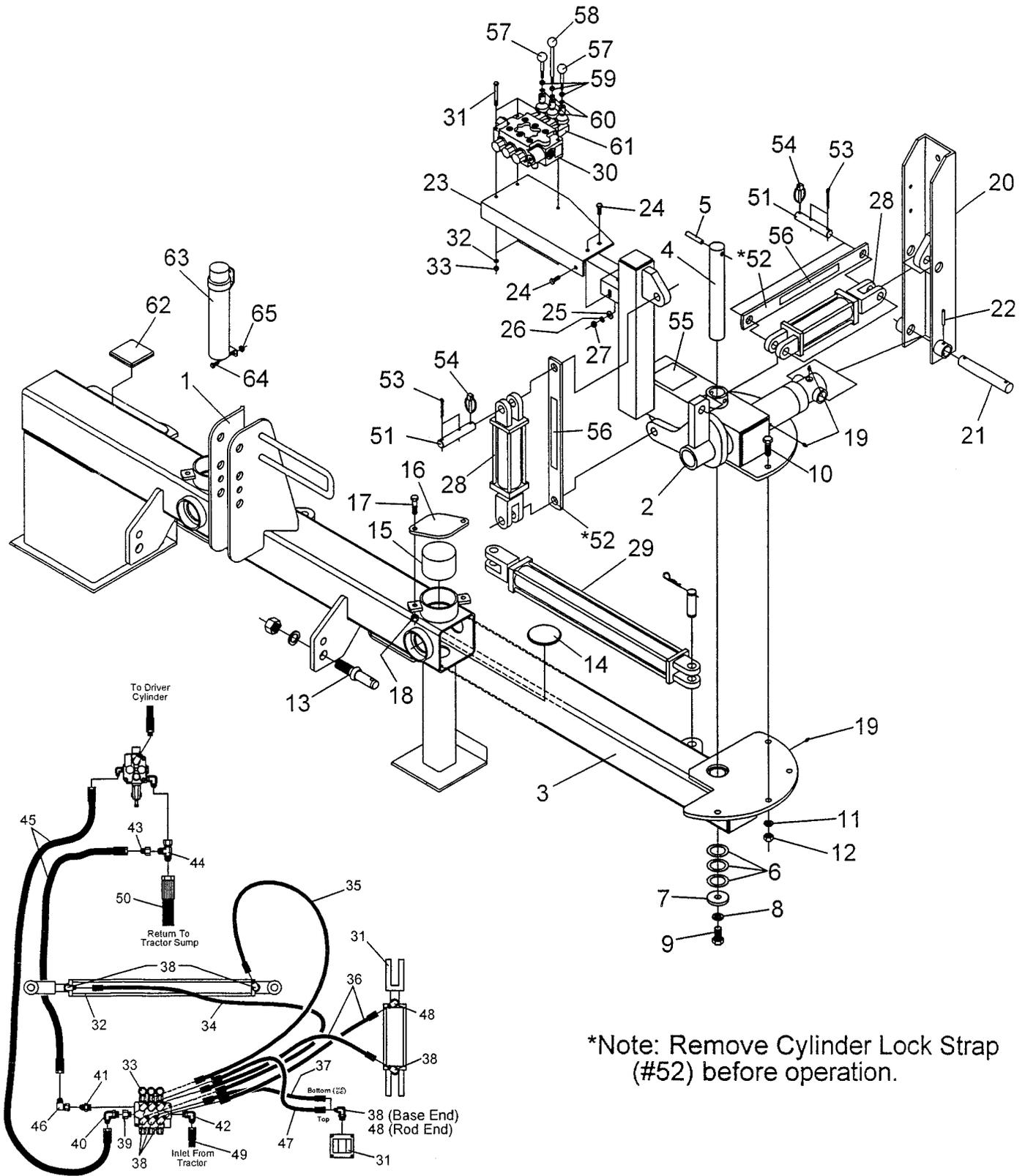


*Note: Remove Cylinder Lock Strap (#38) before operation.

HYDRAULIC CENTER MOUNT PARTS LIST

Ref. No.	Part No.	Description	No. Req'd.
1	814695	Center Mount Weldment	1
2	590159	Draw Pin (AK-4120)	2
3	2504049	Drive Zerk 5/16"	2
4	814771	Support Channel Weldment w/Foot	1
5	830334	Lift Pin (1 1/4" x 8")	1
6	2504070	Roll Pin 5/16" x 2"	1
7	814672	Valve Mount	1
8	2503011	Bolt 3/8"-16NC x 1" Hex Head Gr. 2	3
9	2501004	Washer 3/8" Flat	3
10	2502008	Washer 3/8" Springlock	3
11	2500004	Nut 3/8"-16NC Full Hex	3
12	814867	Stand Weldment	2
13	343180	Adjustment Pin	2
14	590187	Hair Clip Pin (AK-2704)	2
15	2504258	Hydraulic Cylinder 3 x 6	2
16	815085	Valve, 2-Spool	1
17	815087	Handle, Valve (Short)	1
18	815088	Handle, Valve (Long)	1
19	2500088	Nut, M8 Hex	2
20	2502023	Washer, External Star 8mm	2
21	2503098	Bolt 5/16"-18NC x 2 1/2" Hex Head Gr. 2	3
22	2502011	Washer 5/16" Springlock	3
23	2500011	Nut 5/16"-18NC Full Hex	3
24	2505756	Hydraulic Hose 1/4" ID x 36"	2
25	2505755	Hydraulic Hose 1/4" ID x 30"	1
26	2505681	90° Elbow 3/4"-16 ORB Male / 9/16"-18 JIC Male	4
27	815086	Power Beyond Sleeve (1.415 Hex AF)	1
	815094	Power Beyond Sleeve (1.285 Hex AF)	1
28	2505748	90° Elbow 7/8"-14 ORB Male / 3/4"-16 JIC Male	1
29	2505746	Connector 3/4"-16 JIC Male to 7/8"-14 ORB Male	1
30	2505737	90° Elbow 3/4"-16 ORB Male / 3/4"-16 JIC Male	1
31	2505745	Reducer Bushing 3/4" to 1/2"	1
32	2505747	Swivel Tee 1 1/16"-12 JIC (2)Male (1)Female	1
33	2505752	Hydraulic Hose 3/8" ID x 36"	2
34	2505736	90° Elbow 3/4"-16 JIC Male / 3/4"-16 JIC Female	1
35	2505754	Hydraulic Hose 1/4" ID x 24"	1
36	2505751	90° Elbow 3/4" ORB M / 9/16" JIC M w/Orifice	4
37	814758	Pin, Special Cylinder	4
38	814759	Strap, Cylinder Lock	2
39	2504068	Pin, Cotter 1/4" x 1 3/4"	8
40	590034	Linch Pin 1/4" (AK-61)	4
41	101122	Safety Sign - Warning (Hi-Pressure)	1
42	101202	Safety Sign - Cylinder Strap	4
43	815091	Valve Operator	2
44	2505744	Hydraulic Hose 1/2" ID x 60"	1
45	2505742	Hydraulic Hose 1" ID x 96"	1
46	2504225	Manual Holder, Plastic	1
47	2503116	Bolt 1/4"-20NC x 1" Hex Head Gr. 2	2
48	2501006	Washer 1/4" Flat	2
49	2500008	Nut 1/4"-20NC Hex Whiz Flange	2

OFFSET PIVOT MOUNT PARTS DRAWING

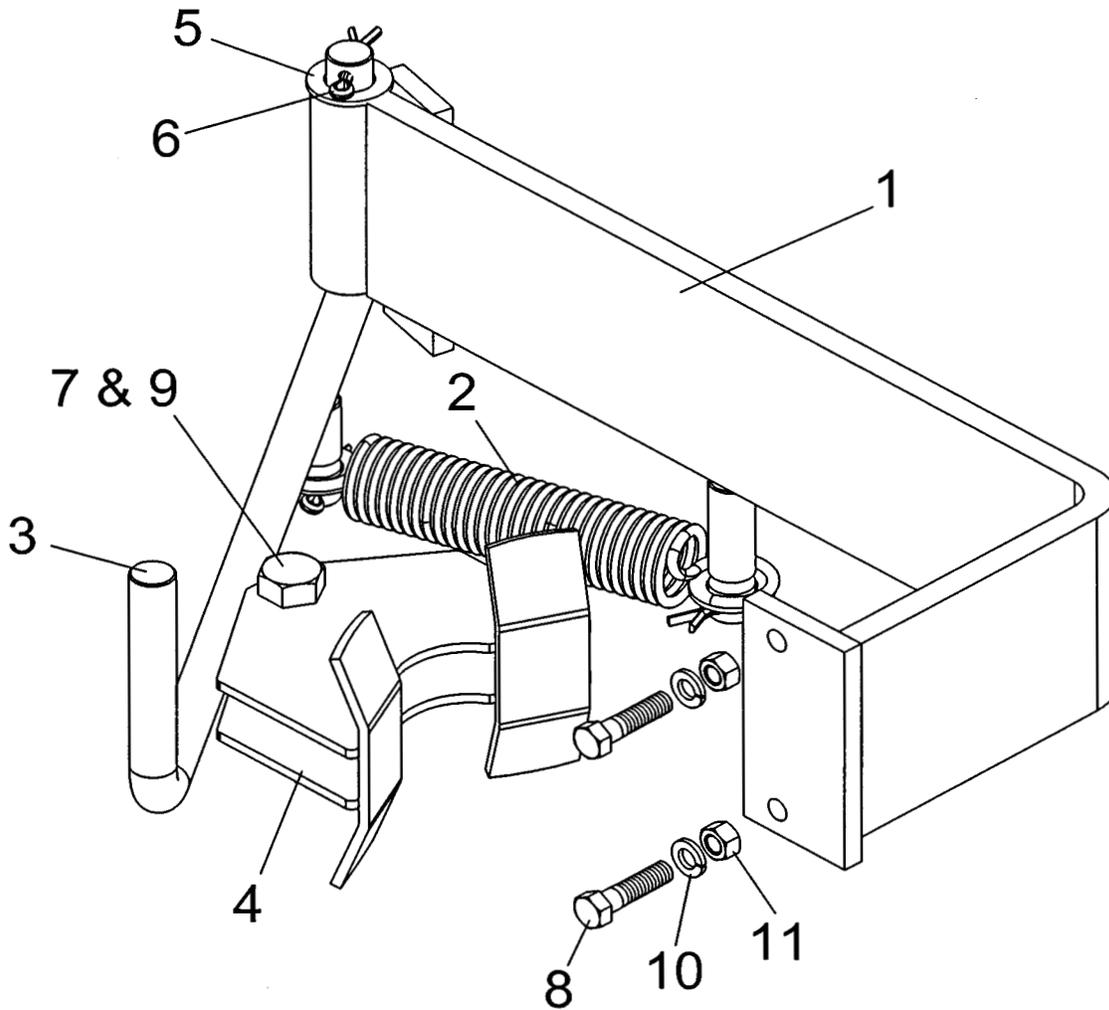


*Note: Remove Cylinder Lock Strap (#52) before operation.

OFFSET PIVOT MOUNT PARTS LIST

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
1	815215	Main Offset Mount Weldment	1	34	2505769	Hydraulic Hose 1/4" ID x 96"	1
2	814870	Offset Pivot Base Weldment	1	35	2505768	Hydraulic Hose 1/4" ID x 72"	1
3	815211	Slide Tube Weldment	1	36	2505756	Hydraulic Hose 1/4" ID x 36"	2
4	815214	Pivot Pin 1 3/4" Dia. x 13"	1	37	2505755	Hydraulic Hose 1/4" ID x 30"	1
5	2504195	Roll Pin 1/2" x 2 1/2"	1	38	2505681	90° Elbow 3/4"-16 ORB Male / 9/16"-18 JIC Male	10
6	2504202	Machinery Bushing 1 3/4" ID x 18 Ga.	3	39	815086	Power Beyond Sleeve	1
7	265085	Retainer, Hinge Pin	1	40	2505748	90° Elbow 7/8"-14 ORB Male / 3/4"-16 JIC Male	1
8	2502001	Washer 3/4" Springlock	1	41	2505746	Connector 3/4"-16 JIC Male to 7/8"-14 ORB Male	1
9	2503139	Bolt 3/4"-10NC x 1 1/2" Hex Head Gr. 2	1	42	2505737	90° Elbow 3/4"-16 ORB Male / 3/4"-16 JIC Male	1
10	2503152	Bolt 5/8"-11NC x 2" Hex Head Gr. 5	2	43	2505745	Reducer Fitting 3/4" to 1/2"	1
11	2502007	Washer 5/8" Springlock	2	44	2505747	Swivel Tee 1 1/16"-12 JIC (2)Male (1)Female	1
12	2500013	Nut 5/8"-11NC Full Hex	2	45	2505767	Hydraulic Hose 3/8" ID x 48"	2
13	590159	Draw Pin (AK-4120)	2	46	2505736	90° Elbow 3/4"-16 JIC Male / 3/4"-16 JIC Female	1
14	815218	Wear Pad 4" Dia. x 3/4"	6	47	2505754	Hydraulic Hose 1/4" ID x 24"	1
15	814746	Wear Pad 4" Dia. x 2 3/4"	2	48	2505751	90° Elbow 3/4" ORB M / 9/16" JIC M w/Orifice	2
16	814747	Plate, Wear Pad Retainer	2	49	2505787	Hydraulic Hose 3/8" ID x 156"	1
17	2503007	Bolt 1/2"-13NC x 2" Hex Head Gr. 2	4	50	2505788	Hydraulic Hose 1" ID x 156"	1
18	2500050	Nut 1/2"-13NC Hex Jam Nylock	4	51	814758	Pin, Special Cylinder	4
19	2504049	Drive Zerk 5/16"	3	52	814759	Strap, Cylinder Lock	2
20	814725	Support Channel Weldment	1	53	2504068	Pin, Cotter 1/4" x 1 3/4"	8
21	830334	Lift Pin 1 1/4" x 8"	1	54	590034	Linch Pin 1/4" (AK-61)	4
22	2504070	Roll Pin 5/16" x 2"	1	55	101122	Safety Sign - Warning (Hi-Pressure)	1
23	814698	Mount, 3-Spool Valve	1	56	101202	Safety Sign - Cylinder Strap	4
24	2503020	Bolt 3/8"-16NC x 1 1/4" Hex Head Gr. 2	3	57	815087	Handle, Valve (Short)	2
25	2501004	Washer 3/8" Flat	3	58	815088	Handle, Valve (Long)	1
26	2502008	Washer 3/8" Springlock	3	59	2500088	Nut, M8 Hex	3
27	2500004	Nut 3/8"-16NC Full Hex	3	60	2502023	Washer, External Star 8mm	3
28	2504258	Hydraulic Cylinder 3 x 6	2	61	815091	Valve Operator	3
29	2504263	Hydraulic Cylinder 2 x 24	1	62	2504300	Cap, Plastic	1
30	815090	3-Spool Valve	1	63	2504225	Manual Holder, Plastic	1
31	2503114	Bolt 5/16"-18NC x 3" Hex Head Gr. 2	3	64	2503116	Bolt 1/4"-20NC x 1" Hex Head Gr. 2	2
32	2502011	Washer 5/16" Springlock	3	65	2500008	Nut 1/4"-20NC Whiz Flange Hex	2
33	2500011	Nut 5/16"-18NC Full Hex	3				

POST HOLDER ATTACHMENT PARTS DRAWING & LIST



Ref. No.	Part No.	Description	No. Req'd.
1	815121	Mount Weldment, Post Holder	1
2	815129	Spring, Extension	1
3	815131	Arm Weldment	1
4	815141	Guide Weldment	1
5	2501032	Washer 3/4" SAE Flat	3
6	2504121	Cotter Pin 3/16" x 1 1/2"	3
7	2503059	Bolt 5/8"-11NC x 2 1/4" Hex Head Gr. 2	1
8	2503300	Bolt 3/8"-16NC x 1 1/2" Hex Head Gr. 5	2
9	2500041	Nut 5/8"-11NC Hex Nylock	1
10	2502008	Washer 3/8" Springlock	2
11	2500004	Nut 3/8"-16NC Full Hex	2

SAFETY REQUIREMENTS

AVOID ACCIDENTS BY FOLLOWING ALL OF THE SAFETY REQUIREMENTS LISTED BELOW.

- Machinery should be operated only by those who are responsible and are authorized to do so.
- Stop the engine, lower all equipment, lock the brakes, and remove the ignition key before dismounting from the tractor.
- Never stand between tractor and implement while tractor is being backed to hitch.
- Loose fitting clothing should not be worn, to avoid catching on various parts.
- Detach implement in area where children normally do not play.
- When performing adjustments or maintenance on an implement, first lower it to the ground or block it securely at a workable height.
- Only a qualified operator should be permitted on tractor when in operation; no riders allowed.
- Make certain everyone is in the clear before starting tractor or raising or lowering equipment.
- Operate the tractor and implement only while seated in the driver's seat.
- Reduce speed when transporting mounted implements to avoid bouncing and momentary loss of steering control.
- A heavy load can cause instability of the tractor. Use extreme care during road travel. Slow down on turns and watch out for bumps. Tractor may need front counterweights to counter-balance the weight of the implement.
- Reduce speed on hillsides or curves so there is no danger of tipping.
- Avoid driving too close to the edge of ditches or creeks.
- Do not transport implement on public roads without reflectors and slow moving vehicle emblem in daylight and with approved warning lights at night and other periods of poor visibility.
- Due to the width of some implements, use extra caution on highways, farm roads, and when approaching gates.
- Always be sure the implement is in the proper position for transport.
- Keep alert and watch the front as well as the rear when working with the implement.

OWNER'S/ OPERATOR'S MANUAL

MODEL NO.'s

HPD-16 SHC

HPD-16 SWO

(S/N 4215 and above)

HPD-22Q SHC

HPD-22Q SWO

(S/N 5501 and above)

HPD-26Q SHC

HPD-26Q SWO

(S/N 1501 and above)

APRIL 2014

3 PT. HYDRAULIC POST DRIVERS with Quick Change™ System

WHEN ORDERING REPAIR PARTS,
ALWAYS GIVE THE FOLLOWING INFORMATION:

1. PART NUMBER
2. PART DESCRIPTION
3. MODEL NUMBER
4. NAME OF ITEM

CAUTION

For Safe Operation
Read Rules And
Instructions Carefully

SI NO LEEINGLES, PIDA AYUDA
A AIGUIEN QUE SI LO LEA
PARA QUE LE TRADUZCA LAS
MEDIDAS DE SEGURIDAD.

WORKSAVER, INC.

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