Operator’s Manual

Hydraulic Post Driver
Model HD-8 & HD-8-H

Safety
Operation
Maintenance
Repair
Troubleshooting
Parts

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Safety

Most work related accidents are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. As you assemble and operate the Shaver Post Driver, you must be alert to potential hazards. You should also have the necessary training, skills, and tools to perform this assembly procedure.

Improper operation and maintenance of this implement could result in a dangerous situation that could cause injury or death.

Do not assemble, operate, or maintain the Shaver Post Driver until you read and understand the information contained in this manual.

Safety precautions and warnings are provided in this manual and on the product. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.
Shaver Manufacturing Company cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this supplement and on the product are, therefore, not all-inclusive. If a method of operation not specifically recommended by Shaver Manufacturing Company is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that the implement will not be damaged or be made unsafe by the methods that you choose.

The information, specifications, and illustrations in this supplement are based on the information that was available at the time this material was written and can change at any time.

Safety Alert Symbols

⚠️ The safety alert symbol means Attention! Become Alert! Your Safety is Involved.

Hazards are identified by the “Safety Alert Symbol” and are followed by the signal word “WARNING”.

**WARNING**: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

Potential damage situations are identified by the signal words “IMPORTANT NOTICE”.

**IMPORTANT NOTICE**
Indicates that equipment or property damage can result if instructions are not followed.

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### Safety Icon Nomenclature

- Read the manual
- Eye protection
- Foot protection
- Hand protection
- Hearing protection
- Inspect equipment
- Two person operation
- Warning decal alert
- Bending hazard (hydraulic hose)
- Crushing hazard
- Crushing hazard (hand)
- Do not weld
- Electrocution hazard
- Explosion hazard
- High-pressure fluid hazard
- Impact hazard (hydraulic hose)
- Pressurized fluid
- Projectile hazard (body)
- Protective guards
- Safety alert symbol
- Slipping hazard
- Tripping hazard
Safety Warnings

General Safety

**WARNING**

To avoid personal injury or death, carefully read and understand all instructions before attempting to assemble and/or operate the Post Driver. Do not operate or work on equipment unless you read and understand the instructions and warnings in this and all other applicable manuals. Contact Shaver Manufacturing Co. if any of the instructions provided are unclear or not understood. Proper care is your responsibility. Always follow all State and Federal health and safety laws and/or local regulations.

To help prevent personal injury, protective equipment must be worn during Post Driver assembly, operation, and maintenance. Personal protective equipment should include, but not be limited to, safety glasses, hearing protection, protective gloves, and steel toe footwear.

Personal injury can result from slips or falls. DO NOT leave tools or parts laying around the work area, and clean up all spilled fluids immediately.

Hazard Avoidance

**WARNING**

Inspect this equipment before each use. Make sure all hardware is tight. Always replace worn or damaged parts before use.

To avoid personal injury or death, do not operate the Post Driver by yourself. Always have another person to control the machine or power source.

**WARNING**

Make sure all decals are securely attached to the Post Driver and are legible at all times. Always read and understand all decals before working on or operating the Post Driver.

Make sure all lock-pins and transport supports are secured in place before transporting or storing the Post Driver. While transporting, never ride on or permit others to ride on the Post Driver.

Improper operating procedures can create risk for the operator and bystanders. DO NOT use the Post Driver before making sure no one will be endangered.

To prevent personal injury or death, be aware of overhead electrical lines when operating the Post Driver. Electrocution can occur even without direct contact with overhead power lines. Proceed cautiously around electrical lines and utility poles.

To prevent personal injury or death, always check for underground utilities such as electrical wires, gas lines, and water pipes before driving posts. Contact local utility companies for information on locating underground utilities.

To avoid serious injury or death, do not operate the Post Driver on steep slopes, as this can cause a roll over.

To avoid personal injury, always stand 45 degrees to the right of the post being driven while operating the Post Driver.
**WARNING**

Potential pinch points. Keep hands clear of Post Driver while operating. Never place hand(s) on top of a post when inserting it into the Post Driver. Always close the safety arm before driving the post.

To avoid personal injury do not attempt to clean, adjust, or lubricate the Post Driver while it is in motion.

The rubber debris guard helps shield the operator from flying debris that may be generated during post driving. To avoid personal injury, make sure the rubber debris guard is securely attached to the Post Driver before driving posts.

To avoid personal injury or death, do not modify the Post Driver by welding, drilling, or grinding. Do not expose to extreme heat, such as from a torch.

The main carriage channel assembly is tall and heavy. To avoid tip over, resulting in serious injury or death, leave the overhead lifting device attached to the main carriage channel while assembling components.

To avoid serious injury or death, the safety arm must be installed after the Post Driver has been mounted on a machine, or the freestanding Post Driver has been secured to prevent tipping.

Hydraulic Hoses

**WARNING**

Avoid damaging hydraulic hoses. Avoid sharp bends and kinks when routing hydraulic hoses. Using a bent or kinked hose will cause severe back-pressure. Sharp bends and kinks can internally damage the hose, leading to premature hose failure, resulting in personal injury.

Do not drop heavy objects on hoses. A sharp impact may cause internal damage to the hose. Applying pressure to a damaged hose may cause it to rupture, resulting in personal injury.

Mismatched couplings and hoses can cause the coupling to violently disconnect from the hose when placed under pressure; separating with sudden, extreme force which can result in property damage, personal injury, or death.

Replace a hose if any of the following conditions are present:
- End fittings that are damaged or leaking
- Outer coverings that are chafed or cut
- Wire shields that are exposed
- Outer coverings that are ballooning
- Flexible part of the hoses that are kinked
- End fittings that are displaced

Pressure can be trapped in a hydraulic system. Trapped pressure can cause sudden movement of an attachment. Use caution when disconnecting hydraulic lines or fittings. High-pressure oil that is released can cause a hose to move violently while spraying oil.

Escaping high pressure fluid can penetrate the skin, causing serious injury. Relieve pressure before unhooking hoses. Check/tighten all connections before activating hydraulics. Never use your hand to check for leaks.
Introduction

The Shaver Manufacturing Company would like to congratulate you on your purchase of the Shaver Hydraulic Post Driver. You have selected the best Post Driver in its class. The clean design and uncomplicated working principle have made Shaver the largest selling Post Driver in the country.

The Shaver Hydraulic Post Driver is a durable piece of equipment that, with regular maintenance, will provide many years of service.

This manual provides information regarding assembly, operation, and maintenance. It is important to read and become familiar with this manual before assembling or operating the Shaver Hydraulic Post Driver.

NOTE: For other valuable information on farm equipment operation and safety, refer to the following resources.

- Farm Equipment Manufacturers Association (FEMA)
  http://www.farmequip.org/home
- National Ag Safety Database
  http://www.cdc.gov/nasd/

Product Information

Record Shaver product information here. The model number and serial number are found on the metal tag attached to the drive ram.

Model Number
Serial Number
Date Purchased
Dealer Name

Specifications

HD-8 & HD-8-H Post Driver

| Approximate Height | 88 in (223.5 cm) minimum 133 in (337.8 cm) maximum |
| Approximate Width | 30 in (76.2 cm) |
| Approximate Depth | 28 in (71.1 cm) |
| Shipping Weight | 385 lbs (174.6 kg) manual base 433 lbs (196.4 kg) hydraulic base |
| Effective Weight of Spring Powered Driving Ram | 360 lbs (163.3 kg) |
| Impact (at full stroke) | 30,000 lbs (13,607.8 kg) |
| Operating Distance | 53 - 126 in (134.6 - 320.0 cm) |
| Main Carriage Channel Tilt | 15°/15° |
| Front/Back | 15°/15° |
| Side/Side | 15°/15° |
| Guide Blocks | 4 (2 per side) |
| Mounting | Tractor (rear or front), skid steer |
| Three-Point Hitch | Category I and II |
| Hydraulic Requirements | 3 - 4 GPM at 1500 PSI (11.3 - 15.1 LPM at 10,342 kPa) |
| Post Size | Maximum Width 7.125 in (18.1 cm) Maximum Length 10 ft (3.0 m) |

¹ With Main Carriage Channel resting on the ground.
Assembly Procedure

Recommended Tools

The tools needed to assemble the HD-8 and HD-8-H Post Driver are shown below. Additional specialized tools are required for maintenance and seal replacement.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>1-1/8 Inch Box End Wrench</td>
<td>1</td>
</tr>
<tr>
<td>T2</td>
<td>1-1/16 Inch Box End Wrench</td>
<td>1</td>
</tr>
<tr>
<td>T3</td>
<td>3/4 Inch Box End Wrench</td>
<td>1</td>
</tr>
<tr>
<td>T4</td>
<td>9/16 Inch Box End Wrench</td>
<td>1</td>
</tr>
<tr>
<td>T5</td>
<td>1/2 Inch Drive Impact Gun</td>
<td>1</td>
</tr>
<tr>
<td>T6</td>
<td>1-1/16 Inch Impact Socket</td>
<td>1</td>
</tr>
<tr>
<td>T7</td>
<td>15/16 Inch Impact Socket</td>
<td>1</td>
</tr>
<tr>
<td>T8</td>
<td>Soft Mallet or Hammer</td>
<td>1</td>
</tr>
<tr>
<td>T9</td>
<td>1/2 Inch Drive Ratchet</td>
<td>1</td>
</tr>
<tr>
<td>T10</td>
<td>3/8 Inch Drive Ratchet</td>
<td>1</td>
</tr>
<tr>
<td>T11</td>
<td>9/16 Inch Deepwell Socket (3/8 inch drive)</td>
<td>1</td>
</tr>
<tr>
<td>T12</td>
<td>1/2 Inch Deepwell Socket (3/8 inch drive)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Heavy-Duty Snap Ring Pliers *</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Soft Brass or Wood Drift *</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Heavy-Duty Seal Pick *</td>
<td>1</td>
</tr>
</tbody>
</table>

* Required for cylinder seal replacement.

Unpacking

**WARNING**

Due to the size and weight of the Post Driver, two people are required for the assembly procedures.

The Post Driver is shipped in several sections: the driving ram assembly, base plate assembly, short channel bracket, hose and valve carton, safety arm bracket, and on model HD-8-H, the tilt cylinder carton.

**WARNING**

Before starting the unpacking procedure, make sure the overhead lifting device or material handling device (forklift) has adequate lifting capacity. Follow all safety recommendations when unpacking the Post Driver. Some components are heavy and can cause serious injury or death if not adequately supported during removal and assembly.

For ease of assembly, unload the Post Driver components in the area where they will be assembled. Choose a large, hard surface area that can safely support the weight of the assembled implement and is accessible by the machine it will be mounted on.
Assembly

NOTE: Refer to the Service Parts section of this manual for a photo and description of all the parts.

The HD-8 main carriage channel has provisions for mounting carriage channel bracket in three positions.

- Six middle bolt openings - three-point hitch (most common position).
- Six upper bolt openings - tractor front mount.
- Six lower bolt openings - for driving 10 ft (3.05 m) tall posts only - three-point hitch or front tractor mount.

The HD-8 and HD-8-H are shipped with the carriage channel bolts installed in the middle mounting position.

IMPORTANT NOTICE

To prevent damage to the lift cylinder, if moving the carriage bracket mounting bolts to a different mounting location, it is necessary to disconnect the lift cylinder from the main carriage channel assembly. Do this procedure before raising (standing up) the main carriage channel. For instructions on disconnecting the lift cylinder, refer to the Service Information section in this manual.

The Post Driver assembly procedure consists of the following subsections:

1. Main Carriage Channel
2. Stabilizer Legs (optional)
3. Base Plate
4. Hydraulic Valve
5. Safety Stop Adjustment
6. Rubber Debris Guard
7. Safety Arm

Main Carriage Channel

1. With road lock pin (B8) installed in the lower hole of drive ram (A1), use a suitable overhead lifting device to raise (stand up) main carriage channel (B1).

(A1) Drive Ram. (B1) Main Carriage Channel. (B8) Road Lock Pin.

WARNING

The main carriage channel assembly is tall and heavy. To avoid tip over, resulting in serious injury or death, leave the overhead lifting device attached to the main carriage channel while assembling components.
2. Install the appropriate short channel bracket (D2) using bolts (D3), lock washers (D4), and nuts (D5) (four each). Tighten completely.

**NOTE**: Hydraulic short channel bracket (D2) shown. Manual short channel bracket (D1) installation is the same.

3. Remove road lock pin (B8) from lower hole in drive ram (A1). Use spring tension to help raise main carriage channel (B1) and insert road lock pin (B8) in upper hole (tool storage position) in drive ram (A1). Install Lynch pin (B9) in road lock pin.

**Stabilizer Legs**

1. Place three-point hitch weldment (K1) upside down on the floor. Install stabilizer leg brackets (K2) over the cross tube, as shown. Tighten two leg bracket bolts (K3) to secure brackets to cross tube.

**NOTE**: Loosen stabilizer leg bracket lock bolts, and remove stabilizer legs from brackets before mounting brackets on cross tube.

2. Install stabilizer legs (K7) in leg brackets (K2), as shown.
3. Set stabilizer leg (K7) height at 4” (10.2 cm) measured from three-point hitch weldment (K1) cross tube to stabilizer leg base plate, as shown. Tighten stabilizer leg lock bolts (K8) (not shown).

NOTE: If the upper set of holes are used to mount channel bracket (D1 or D2), the height of the legs should be set to 14” (35.6 cm). If the lower set of holes are used, the stabilizer legs cannot be attached.

3. Turn over the three-point hitch weldment (K1) and set it on stabilizer leg (K7) base plates, as shown.

Base Plate

NOTE: Manual base plate (E2) shown. Installation of hydraulic base plate (F2) is the same.

1. Remove the mounting hardware from manual base plate (E2). Save hardware for reuse.

2. Install manual base plate (E2) on three-point hitch weldment (K1). Install hardware removed in Step 1. Center the base plate on the three-point hitch and tighten the hardware securely.
3. Remove and save channel mounting pins (D6) (not shown) from base plate (E2). Get assistance to position the base plate in front of short channel bracket (D1).

**NOTE:** If necessary, use a suitable floor jack to support the three-point hitch weldment. Loosen stabilizer leg lock bolts (K8), and adjust stabilizer legs up or down to align base plate pivot pin holes with manual channel bracket mounts.

4. If necessary, adjust forward tilt crank (E11) and side tilt crank (E3) to align channel mounting pin holes. Install lower channel mounting pin (D6) first and then upper channel mounting pin (D6). Secure pins with Lynch pins (D7).

**NOTE:** For hydraulic short channel bracket (D2) only: Make sure safety lever plate (F9) is installed at upper channel mounting pin (D6), as shown.

5. Completed assembly with manual tilt base plate (E2).
Hydraulic Valve

The customer must supply suitable hydraulic quick disconnect fittings to attach pressure supply hose (G17) and return hose (G20) to the tractor or power supply hydraulic system.

**IMPORTANT NOTICE**

The hydraulic valve and cylinder(s) can be damaged by contamination (dirt and debris) from the oil in the tractor or power source. Ensure the oil is clean and properly filtered before connecting the Post Driver to a hydraulic power source. Failure to follow oil cleanliness standards voids the Shaver Post Driver warranty.

**NOTE:** The hydraulic control valve for hydraulic tilt base plate (F2) has additional hose connections. Installation information for the additional hoses is covered at the end of this section.

1. Lay out the hydraulic control valve and related components.

2. Install the hydraulic valve on the short channel bracket (D1, D2) using three 5/16-18 x 3” valve mounting bolts (G2), washers (G3), and nuts (G4). Do not overtighten hardware.

**IMPORTANT NOTICE**

All hydraulic system fittings must be installed with a paste-type thread sealant only. Do not use a tape-type sealer such as Teflon Tape, as this can contaminate the system and voids the valve warranty.

3. Assemble the hydraulic control valve. Single lever control valve (G1) for manual base plate or triple lever control valve (H1) for hydraulic base plate.

   a. Remove the plugs from the hydraulic control valve. Apply pipe thread sealant compound to threads and install hydraulic fittings (G16, G17, G18, G19, and G21). Refer to photographs for correct placement and orientation.

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**Manual Tilt Base Control Valve.**

Hydraulic Tilt Base Control Valve.

(G16) Pipe Fitting - 1/2 NPT 90° Elbow. (G18) Fitting - 3/4" NPT to 3/8" NPT Reducer. (G19) Pipe Fitting - 3/8" NPT 90° Elbow. (G21) Pipe Fitting - 3/4" NPT 90° Elbow. (H3) Adapter Fitting - 1/2 NPT Male to 1/2 NPT Female Swivel. (H4) 1/2 NPT Male to 3/8 Female Swivel - 90° Elbow.

b. Install control valve lever(s) (G5), control valve safety lever (G7), and safety lever return spring (G10), as shown. Secure with cotter pins (G13).

c. Attach the main hydraulic hoses.

4. Attach the main hydraulic hoses.

a. Apply thread sealant compound to threads and install valve to drive ram hose (1/2” I.D. x 35”) (G15) between hydraulic control valve (G1 or H1) and drive cylinder assembly (C1).

b. Install control valve lever(s) (G5), control valve safety lever (G7), and safety lever return spring (G10), as shown. Secure with cotter pins (G13).
b. Apply thread sealant compound to threads and install swivel fitting on pressure hose (3/8" x 120") (G17) to control valve (G1 or H1).

c. Apply thread sealant compound to threads and install swivel fitting on return hose (3/4" x 120") (G20) to control valve (G1 or H1).

d. Hydraulic tilt base plate only. Apply thread sealant compound to hose fitting threads (cylinder end only) and attach tilt cylinder hoses (H5) between forward tilt cylinder (F3) and triple lever control valve (H1), as shown.

e. Apply thread sealant compound to hose fitting threads (cylinder end only) and install side tilt cylinder hoses (F4) between tilt cylinder hose (H5) and triple lever control valve (H1), as shown (hydraulic tilt base plate only).

**IMPORTANT NOTICE**

If the hoses are attached differently than shown, the control of the drive ram will not be as described in this manual.
Safety Stop Adjustment

WARNING

To avoid serious injury, inspect the control valve safety stop before using the Post Driver the first time and/or before each daily use. Adjust the safety stop as needed, per the following procedure. Make sure all control valve hardware is tight. Always replace worn or damaged parts before use.

The control valve safety stop prevents unintentional activation of the Post Driver control valve and must be functional at all times.

If the Post Driver is operational, make sure the machine/power source is off, parking brake is set, road lock pin is installed, and the hydraulic pressure is released (zero).

1. Attempt to push main hydraulic control valve lever (G5) forward (away from operator) without squeezing (pulling) yellow tipped control valve safety lever (G7).

2. If main hydraulic control valve lever (G5) **CAN** move forward more than 1/4”, the safety stop must be adjusted.

3. To adjust the safety stop, do the following:
   a. Squeeze the control valve lever and the control valve safety lever together to expose the safety lever stop setscrew.
   b. Insert a 1/8” Allen wrench and adjust the setscrew outward (counterclockwise) slightly. Remove the Allen wrench and repeat Step 1.
   c. If necessary, repeat Step 3a and Step 3b just until the setscrew prevents more than 1/4” of forward movement of the control valve lever.

   **NOTE:** Do not “over adjust” the setscrew. Make sure the setscrew easily falls into place behind the lip on the control valve when it is released quickly (1/8” gap at the setscrew).
Rubber Debris Guard

1. Locate rubber debris guard (A4), guard mounting strap bracket (A5), and bag containing hardware and caution tag (A6, A7, A8, and A9).

2. Attach rubber debris guard, mounting strap, and caution tag on drive ram (A1) with guard mounting bolts, lock washers and nuts, as shown.

**IMPORTANT NOTICE**

Do not overtighten hardware and damage the rubber debris guard.

Safety Arm

**WARNING**

To avoid serious injury or death, the safety arm must be installed after the Post Driver has been mounted on a machine, or the freestanding Post Driver has been secured to prevent tipping.

1. Locate safety arm assembly parts and hardware.

**IMPORTANT NOTICE**

Do not overtighten hardware and damage the rubber debris guard.
2. Attach safety arm frame (I2) to outside of short channel bracket (D1 or D2) with two 3/4-10 x 2" frame mounting bolts (I3) and self locking nuts (I4), as shown. Tighten nuts securely.

![Image of attaching safety arm frame](HD8-31)


3. Assemble rollers (I7) onto roller bracket (I6) and secure with two roller retainer roll pins (I8), as shown.

![Image of assembling rollers](HD8-33)


4. Apply a light film of a good quality grease to the pivot shaft and attach roller bracket (I6) to swing arm handle (I5) with roller bracket nut (I9). Tighten nut until seated and then loosen 1/4 to 1/2 turn.

![Image of attaching roller bracket](HD8-34)


**NOTE**: Roller bracket (I6) must swivel freely on swing arm handle (I5).

5. Attach one end of latch spring (I10) to swing arm handle (I5), as shown. Secure with spring retainer flat washer (I11) and Lynch pin (I13).

![Image of attaching latch spring](HD8-35)

6. Install the swing arm assembly.
   a. Apply a light film of a good quality grease to the pivot shaft on swing arm handle (I5).
   b. Start the pivot shaft into the main bracket tube, as shown. Slide the open spring eye over the main bracket anchor rod.

**NOTE:** Swing arm handle (I5) will be below safety arm frame (I2) bracket stop at this point.

c. Secure with flat washer (I11) and Lynch pin (I13).

7. Pull swing arm handle around toward the Post Driver drive ram I-beam until the swing arm clears (swings past) safety arm frame (I2) bracket stop.

8. Tap swing arm handle shaft up through safety arm frame tube. Install Lynch pin (I13) to secure the swing arm to the safety arm frame.

9. Install Lynch pin to secure swing arm to the safety arm frame.
10. Verify the swing arm handle opens against safety arm frame (12) stop bracket and closes against back wall of drive ram (A1) I-beam.


NOTE: When driving a fence post, the swing arm rollers must contact and hold the fence post in position.

Document Storage Tube

1. If desired, locate the document storage tube in a convenient location on the Post Driver. The photo below shows the tube mounted on the drive ram, but other locations are acceptable.

2. Mark the location of the two mounting holes using the storage tube as a guide.

3. Drill two 3/16” holes.

4. Attach the storage tube with the two pop rivets supplied inside the tube.
Post Driver Operation

Operational Safety Tips

1. Follow all safety information contained in this manual and refer to safety decals located on the Post Driver.

2. Personal safety equipment must be worn at all times during operation, i.e. safety glasses, steel toe shoes, hearing protection, etc.

3. Always stand 45 degrees to the right of the post while the Post Driver is in operation.

4. Do not remove any of the Post Driver safety equipment or safety labels.

5. All Post Driver safety equipment must be inspected, maintained, kept in working order, and used during Post Driver operation.

6. Do Not place your hand(s) on top of the post when placing the post in the Post Driver or while the Post Driver is operating.

7. Leave the safety arm attachment open when not holding a post, except when transporting the Post Driver.

8. Do not remove the hydraulic control valve safety lever stop.

9. Never use the maximum force of the Post Driver until the post being driven is started into the ground and is straight.

10. Use caution when driving small diameter wood or steel posts. Maximum driving impact is not necessary.

11. Always be aware of the environment in which you are operating the Post Driver.

12. Do not operate the Post Driver on steep slopes, as this could cause a roll over.

13. Always check for underground utilities, i.e. wires, gas lines, water lines, etc. Call your local utility companies for underground utility locations.

14. Use caution where large rocks or other objects could be hidden underground and not visible to the operator. The post could splinter and cause injury to the operator. If the post fails to drive into the ground after two or three strikes, move to another location.

15. Do not operate the Post Driver with machine or power source unattended. The Post Driver requires two people for proper operation - one operating the Post Driver and one on the tractor.

16. Always engage the road lock pin in the drive ram upper hole before transporting and in the lower hole for storage.

Operating Instructions

Mounting

1. With the Post Driver positioned on a hard level surface, move the tractor or other power supply toward the Post Driver until three-point hitch lines up.

2. Attach two lower, three-point hitch lift arms to Post Driver three-point hitch weldment (K1) hitch pins. Secure with lock pins (operator supplied).

(K1) Three-Point Hitch Weldment. (K2) Leg Bracket Weldments. (K8) Stabilizer Leg Lock Bolt.

NOTE: The HD-8 Post Driver will fit tractors with Category I or Category II three-point hitches. Use bushings on hitch pins, if required, to correctly install lift arms.
3. Attach the three-point top link to removable pin in Post Driver three-point hitch weldment (K1). Secure upper pin with Lynch pin.

NOTE: Adjust the length of the machine’s top link, as required, to correctly attach the Post Driver.

4. Attach hydraulic pressure supply hose (small diameter, G17) to the tractor pressure supply port. Attach hydraulic return hose (larger diameter, G20) to the tractor return port.

(G1) Control Valve. (G17) Hydraulic Pressure Supply Hose. (G20) Hydraulic Return Hose.

NOTE: The operator is responsible for installing quick-disconnects, return fitting, or other suitable fittings to the Post Driver hoses that are compatible with the tractor.

5. If traveling more than 100 feet to drive the first post, remove road lock pin (B8). Raise drive ram (A1) and install road lock pin in lower “transport” position. The Post Driver can now be moved to the work site.

(A1) Drive Ram. (B8) Road Lock Pin.

Preparing to Drive a Post

IMPORTANT NOTICE
If operating on uneven ground, make sure stabilizer legs firmly contact the ground at each new fence post location. If necessary, loosen stabilizer leg lock bolts to readjust stabilizer legs as needed. Failure to do so can cause damage to Post Driver components.

6. Loosen stabilizer leg lock bolts (K8) and raise up each stabilizer leg (K7). Tighten lock bolts to support stabilizer legs.

(K7) Stabilizer Leg.
7. Position the tractor or power source in place to drive the first fence post.

8. Set the brakes on the tractor or power supply. If the machine is equipped with an automatic transmission, the transmission must be in PARK.

9. Remove road lock pin (B8) and lower drive ram (A1) until it rests on main carriage channel lower rubber bumpers (B3) (store road lock pin in a secure location).

10. Lower Post Driver until drive ram (A1) firmly contacts the ground.

11. Continue to lower Post Driver main carriage channel (B1) an additional 1" (2.5 cm).

NOTE: This important step helps protect lower rubber bumpers (B3) from premature wear and/or damage.

12. Loosen stabilizer leg lock bolts and lower stabilizer legs until both feet firmly contact the ground. Tighten stabilizer leg lock bolts.

Driving a Post

13. Lubricate four guide blocks (A2) with oil before each daily use and, if necessary, between post installations.

IMPORTANT NOTICE

Do not use grease on the guide blocks or in the main carriage channel. Grease will retain abrasive material, which will result in premature wear.

NOTE: The tractor or other power source must be capable of maintaining adequate hydraulic pressure (engine RPM) to smoothly operate (cycle) the Post Driver.

WARNING

To avoid personal injury or death, do not operate the Post Driver by yourself. Always have another person to control the machine or power source.
14. Open (pull back) safety arm frame (I2) and pull main hydraulic control valve lever (G5) to raise drive ram (A1).


**IMPORTANT NOTICE**

At the beginning of each day, use the main hydraulic control lever to cycle the drive ram up and down 10 to 15 times, without impact with a post or the ground, to “season” the drive ram return springs. Failure to follow this recommendation can cause damage to the springs.

15. If necessary to drive the fence post straight, adjust the main carriage channel side-to-side and fore-and-aft using manual cranks (manual base plate) or second and third hydraulic control valve levers (hydraulic base plate) to activate hydraulic tilt cylinders.
Potential pinch points. Keep hands clear of Post Driver while operating. Never place hand(s) on top of a post when inserting it into the Post Driver. Always close the safety arm when driving the post.

16. Place a fence post in drive ram (A1) I-beam under the drive ram plate.

**NOTE**: There should be a 1” to 2” gap between the top of the fence post and the bottom of the drive ram plate. The photo below shows the rubber debris guard raised up for photographic purposes. Never drive a fence post without the guard in place.

17. Close safety arm frame (I2) to secure the post (the adjustable roller assembly keeps tension on the post while it is being driven).

18. **Do not** stand in front of the drive ram while operating the Post Driver. Stand at a 45 degree angle to the side of the Post Driver, in front of hydraulic control valve (G1, H1).

19. Squeeze control valve safety lever (G7) and push control valve lever (G5) to release the drive ram and create impact.

**WARNING**

(I2) Safety Arm Frame.

(G5) Control Valve Lever. (G7) Control Valve Safety Lever.
20. Pull control valve safety lever and handle to raise drive ram again. Continue this process, as needed, to drive the post to the desired depth.

**IMPORTANT NOTICE**

Posts will go in the ground much straighter using shorter strokes. Use caution when driving small diameter wood and steel posts. Maximum impact is not necessary with these smaller diameter posts and can cause damage (splintering or breakage) of posts.

**NOTE:** If the post stops going down or is crooked after a few impacts, stop and move the post to a different location. Conditions such as thick sod, rocks, or tree roots can cause splintered or broken posts.

21. Once a post is driven to the desired depth or the drive ram contacts the ground, release the hydraulic control lever.

22. Open safety arm frame (I2).

23. Raise the Post Driver and move to the next location to begin driving a new post.

24. If traveling more than 100 feet, install road lock pin in lower “transport” position. The Post Driver can now be moved to the next work site or the storage location.

---

**Placing Post Driver into Storage**

1. Install road lock pin in upper “storage” position. The Post Driver should be stored on a hard level surface.

2. Lower the drive ram until it is on the ground.

3. Raise or lower the stabilizer legs to allow drive ram I-beam full contact with the ground. Make sure the Post Driver is stable.

**NOTE:** On units without stabilizer legs, store the unit against a post driven into the ground. Position the unit with the driving ram next to the post and secure with a chain wrapped securely around the post and Post Driver.

4. On hydraulic tilt units, tighten the nut on the cylinder stop bracket to prevent the cylinder from drifting and causing an unstable condition with the Post Driver. Failure to tighten this bolt could allow the Post Driver to fall over, causing serious injury or even death.
5. Make sure pressure is relieved from the Post Driver hydraulic system. Disconnect hydraulic pressure supply hose (G17) from the tractor. Disconnect hydraulic return hose (G20) from the tractor.

6. Remove two lower lift arm and top link lock pins from three-point hitch weldment (K1). Separate three-point hitch from the Post Driver.

7. Carefully move tractor or power source away from the Post Driver.

Troubleshooting

NOTE: Refer to the Service Parts section of this manual for a photo and description of all the parts.

Problem: Drive ram (A1) will not move or slide freely on main carriage channel (B1).

Possible Cause/Solution(s):

2. Guide blocks (A2) installed incorrectly. Refer to Service Information section assembly procedures for correct orientation.
3. Incorrect clearance between main carriage channel (B1) and drive ram (A1) I-beam. Refer to Service Information section for clearance specifications.
4. Hydraulic drive cylinder assembly (C1) is not parallel to main carriage channel (B1). Refer to Service Information section, hydraulic drive cylinder installation, and parallelism adjustment.
5. Main carriage channel (B1) or drive ram (A1) is bent or damaged. Discontinue use and order replacement parts.

Problem: Poor performance, low or no impact, hydraulic drive cylinder will not extend.

Possible Cause/Solution(s):

1. Weak or broken drive ram springs (C14).
2. Broken lower spring bracket (C13).
3. Bent or damaged hydraulic drive cylinder assembly (C1).
4. Main carriage channel (B1) is binding.
5. Restricted or plugged hydraulic hose(s) (G15, G17, G20).
6. Low or no hydraulic pressure or flow from the machine or power source.
Problem: Rubber bumpers (B3) have premature or excessive damage.

Possible Cause/Solution(s):
1. Post Driver is not properly adjusted prior to operation and drive ram guide blocks (A2) are contacting rubber bumpers (B3).

Storage
For the best results, always store equipment in a dry, protected location. Leaving equipment unprotected will shorten the service life of the implement.

1. Before storing, remove debris and clean the entire unit with compressed air or pressure washer.

2. Inspect the Shaver Post Driver.
   • Check all bolted connections. Ensure that fasteners are tight, and all pins are secured in place.
   • Inspect frame for structural fractures.
   • Make sure all warning decals are in place and legible.
   • Make sure rubber debris guard is in place and in serviceable condition.
   • Check hydraulic cylinder(s) for signs of seal damage or excessive wear.
   • Inspect all hydraulic hoses and fittings for leaks or signs of wear.

3. After cleaning, lightly lubricate guide blocks with clean engine oil. Do not apply grease, as this will retain grit and cause excessive wear.

4. Clean and lubricate hydraulic control valve safety stop linkage. Make sure return spring and cotter pins are in good condition.

5. Apply a light coating of clean grease to all exposed hydraulic cylinder shafts to help prevent rust.

Service Procedures

**WARNING**

To avoid personal injury or death, carefully read and understand all instructions before attempting to assemble and/or operate the Post Driver. Do not operate or work on equipment unless you read and understand the instructions and warnings in this and all other applicable manuals. Contact Shaver Manufacturing Company if any of the instructions provided are unclear or not understood. Proper care is your responsibility. Always follow all State and Federal health and safety laws and/or local regulations.

To help prevent personal injury, protective equipment must be worn during Post Driver assembly, operation, and maintenance. Personal protective equipment should include, but not be limited to, safety glasses, hearing protection, protective gloves, and steel toe footwear.

Before making any adjustments on the Post Driver, ensure that all hydraulic levers are in the neutral position. Always shut off the machine, set parking brake, and remove key before performing any service.

Personal injury can result from slips or falls. DO NOT leave tools or parts laying around the work area, and clean up all spilled fluids immediately.

NOTE: Disassembly, assembly, and/or associated repairs must be performed with the main carriage channel and drive ram in a horizontal position, such as on a suitable pallet, or heavy-duty support stands.

Refer to Dismounting Post Driver from Machine/Power Source section for steps to remove Post Driver from a tractor or other power source.
Three-Point Hitch/Post Driver Disassembly

1. Secure the Post Driver upright (main carriage channel (B1) and drive ram (A1) assembly) to an appropriate overhead lifting device to prevent tipping.

2. Disconnect drive cylinder to valve hose (G15) and drain fluid into a suitable container.

3. On hydraulic base plate models, tighten the cylinder stop arm bolt. Disconnect four tilt cylinder hoses (H5) from hydraulic control valve (H1), and drain fluid into a suitable container.

4. Remove Lynch pin locks and two short channel mounting pins (D6) that connect the base plate to the Post Driver upright (applies to manual or hydraulic models).

   NOTE: If necessary, lubricate channel mounting pins with penetrating oil to assist pin removal.

5. With assistance, carefully move the three-point hitch weldment/base plate assembly away from the Post Driver upright. Store weldment/base plate assembly in a safe location.

6. The upright assembly is heavy. Use an appropriate lifting device to position the Post Driver assembly horizontally, on suitable stands, pallet, or blocks on the ground.

Main Carriage Channel Disassembly

1. Remove road lock pin (B8).

2. Remove the two 3/8-16 self locking nuts that attach drive cylinder (C2) and lower spring bracket (C13) to main carriage channel (B1).

   (B8) Road Lock Pin.

3. Push hydraulic drive cylinder assembly (C1) to the closed (retracted) position.

   NOTE: Be prepared to collect any hydraulic fluid that drains from the cylinder into a suitable container.

4. Remove upper drive cylinder rod self locking nut (C4) from drive cylinder piston (C3).

   NOTE: Do not reuse self locking nut (C4). Replace with a new self locking nut.
5. Remove drive ram spring(s) (C14) from the upper spring bracket by creating a loop in the spring.

6. Remove springs from the bottom of the Post Driver between drive ram (A1) I-beam and main carriage channel (B1).

7. Inspect upper and lower spring mounting brackets for wear, specifically at spring contact points.

8. Inspect springs for wear in and around the spring eyelet area and the full spring length. Check for bent or cracked spring loops.

9. Remove two road lock bracket nuts (B7) and remove road lock bracket (B2) from main carriage channel.

10. Inspect road lock bracket, rubber bumpers, and hardware. Replace as necessary.

11. Remove drive cylinder assembly (C1) by sliding it out the top of main carriage channel (B1).

**NOTE**: Refer to Drive Cylinder Seal Replacement section for cylinder service.

12. Get assistance to remove main carriage channel (B1) by sliding it out of drive ram (A1).
13. Remove guide blocks (A2) and shims (A3) from pins inside the drive ram I-beam.

(A2) Guide Blocks. (A3) Shims.

14. Inspect contact points on guide blocks (A2) for excessive wear and replace as necessary.

15. Inspect drive ram (A1) I-beam for wear or damage.

Drive Cylinder Seal Replacement

1. Remove drive ram cylinder assembly (C1) from the Post Driver, as outlined in the disassembly instructions.

(C1) Drive Ram Cylinder Assembly.

2. Be prepared to collect any hydraulic fluid that drains from the cylinder into a suitable container. Unscrew cylinder cap (C7) and remove cylinder piston rod (C3) from the cylinder housing.

NOTE: Care must be taken during removal to prevent scoring of cylinder piston rod (C3) or the inside of the cylinder tube (C2).

(C3) Cylinder Piston Rod. (C7) Cylinder Cap.

3. Inspect threads on the O.D. of drive cylinder (C2) tube and I.D. of cylinder cap (C7). Repair or replace components with damaged threads.
4. Remove self locking piston guide nut (C11) and piston rod guide (C10), using a 1-1/4” wrench to hold the piston rod guide while removing the piston guide nut. Discard the self locking nut and replace with new.

5. Place cylinder cap (C7) and cylinder cap seal (C9) in hot (120°F) water for ten minutes. Soaking the cap and seal will make the seal more pliable and easier to remove.

6. Wear gloves to protect your hands from hot components, and use a sturdy seal pick to remove cylinder cap seal (C9) from cylinder cap (C8).

7. Clean the seal groove in cylinder cap (C8) and place the new seal in hot (120°F) water for ten minutes.

8. Once the seal is pliable, squeeze the new seal together making a banana shape. Place one end of the seal into the cylinder cap seal groove. Continue to push the seal into the seal groove, holding the seal in the groove from the bottom with one finger, while continuing to push the seal down from the top until the seal snaps in place.

**IMPORTANT NOTICE**

Care must be taken not to damage the new seal while installing it. Do not use a sharp tool, such as a screwdriver, to push the seal into place. A suitable diameter impact socket with rounded edges can be useful in pushing the seal into the cap groove.

9. Once cylinder cap seal (C9) is in the groove, double check for correct orientation. The sharp edge of the seal must be down (towards the threads inside cap).

10. Lubricate the seal with clean hydraulic fluid and slide the cap onto cylinder piston rod (C3) from the bottom.

**IMPORTANT NOTICE**

Do not slide the cylinder rod cap over the top of the drive cylinder rod. The threads will damage the new cylinder rod cap seal.
11. Install piston guide (C10) and new self-locking piston guide nut (C11), using a 1-1/4” wrench to hold the piston guide while installing the piston guide nut. Do not overtighten the self-locking nut. Piston guide (C10) must be able to rotate on cylinder piston rod (C3).

12. Install cylinder piston rod (C3) assembly into drive cylinder tube (C2).

NOTE: Care must be taken during installation to prevent scoring of cylinder piston rod (C3) or the inside of the drive ram cylinder tube (C2).

13. Apply paste-type thread sealer on drive cylinder tube (C2) external threads and install cylinder cap assembly (C7). Tighten cap securely.

14. To install drive cylinder assembly (C1) in the Post Driver, follow the instructions in the Main Carriage Channel Assembly section.

Main Carriage Channel Assembly
1. Install shims (A3) and guide blocks (A2) on the pins inside drive ram (A1) I-beam.

NOTE: Chamfer (rounded edges) on guide blocks must be positioned horizontally to match the chamfer on the inside of main carriage channel (B1) frame.

2. Lubricate guide blocks with clean oil to reduce friction. With assistance, install (slide) main carriage channel (B1) over guide blocks (A2).

3. Main carriage channel should slide back and forth freely without contacting or rubbing drive ram.

4. With assembly horizontal, check up and down movement of main carriage channel in drive ram I-beam. Up and down movement should not be less than a 1/4” or more than 1/2”.

5. Install drive ram cylinder assembly (C1) in main carriage channel (B1) from the top (upper end).

6. Install springs (C14) from the bottom of the Post Driver between drive ram (A1) I-beam and main carriage channel (B1), and slide into position.

NOTE: Hydraulic drive ram cylinder (C1) must be installed in main carriage channel (B1) before springs (C14) are installed.

7. Hook springs (C14) to the upper spring bracket by creating a loop in the spring. Make sure the spring eyelets are completely seated in the bottom of the bracket slot.
8. Attach drive cylinder piston rod (C3) to the top of the drive ram I-beam using a new lock washer (C16) and self locking nut (C4).

9. Hold the lower nut with a 1-1/8” wrench and tighten self locking nut using 1-1/16” wrench. Then loosen self locking nut 1/2 turn (180 degrees).

NOTE: The adjustment in Step 10 allows for better alignment of the drive ram cylinder within the main carriage channel.

10. Install rubber bumpers (B3) on road lock bracket (B2). Install assembly on bottom of main carriage channel (B1) using two 3/8-16 x 2” bolts (B6) and 3/8-16 nuts (B7). Tighten the nuts completely.

11. Place lower spring bracket (C13) (not visible) against hydraulic drive cylinder assembly (C1) bottom plate and align bolt openings. Extend the drive cylinder and lower spring bracket downward and install both bottom plates on mounting bolts (B6) using two new 3/8-16 self locking nuts (C12).
12. To avoid binding, the drive cylinder and rod must be parallel to the sides of the main carriage channel. If necessary, make the following adjustments:
   a. Make sure the top drive ram cylinder self locking nut is loosened 1/2 turn.
   b. Loosen the lower drive ram cylinder self locking nuts.
   c. Tighten each nut slightly, in turn, to align the drive cylinder inside the main carriage channel.

13. Pull main carriage channel (B1) down and install road lock pin (B8) and Lynch pin (B9) in lower hole in drive ram (A1).

Forward and Side Tilt Cylinder Maintenance

Cylinder Disassembly

1. Remove cylinders (F3 or F4) from base plate by disconnecting and plugging the hydraulic hoses and removing two mounting pins (F7 and/or F8).

   NOTE: Be prepared to collect any hydraulic fluid that drains from the cylinder and hoses into a suitable container.

2. Plug cylinder fittings, and clean the outside of the tilt cylinder.

3. Inspect the cylinder mounting points. Replace any worn or damaged components.

4. Carefully clamp cylinder (F3 or F4) mounting tube in a vise. Completely compress internal cylinder cap snap ring (F14) and pull cylinder rod assembly (F16 or F17) out of tilt cylinder tube (F21).

5. Disassemble cylinder rod (F16 or F17) by removing cylinder rod nut (F20), piston (F19), piston to cylinder rod seal (F18), and cylinder cap (F15) from the cylinder rod.

6. Inspect cylinder rod sealing surface for any dents, bends, nicks, pitting, scratches, scoring, or rust. Replace any worn or damaged components.

7. Disassemble cylinder cap and inspect components. Replace any worn or damaged components.
8. Disassemble cylinder piston and inspect components. Replace any worn or damaged components.

9. Clean the inside of the tilt cylinder tube and inspect for scratches with raised (above the surface level) edges, wear, rust, cracks, and pitting. Replace any worn or damaged components.

Cylinder Assembly

1. Make sure all tilt cylinder components are free of rust and clean using a lint free rag.

2. Use a sturdy seal pick to remove the old seals and discard. Lubricate new seals with clean hydraulic fluid.

3. Install new internal O-ring seal (F23) and lip seal (F24) (raised lip up) inside the cylinder cap. Install a new O-ring seal (F22) in the O.D. groove. Install a new snap ring (not shown) in the top “cut-a-way” groove.

4. Install new scraper seal (F25) in the cylinder piston groove, followed by O-ring seal (F26), and the second scraper seal (F25).

NOTE: The rounded surface of each scraper seal (F25) must face (contact) the larger O-ring seal (F26).

5. Install new slender O-ring seal (F18) on the threaded end of cylinder rod (F16 or F17).

6. Lubricate the ID of cylinder piston (F19) and cylinder cap (F15) with clean hydraulic oil.

7. Install cylinder cap (F15) onto cylinder rod (F16 or F17) with the snap ring groove facing up (toward the cylinder rod mounting eye).

8. Install cylinder piston (F19) with the O-ring relief (groove) toward slender O-ring seal (F18) on cylinder rod (F16 or F17). Install new self locking nut (F20) and tighten securely.

(F22) External O-ring Seal. (F23) Internal O-ring Seal. (F24) Internal Lip Seal.

(F25) Scraper Seal. (F26) O-ring Seal.

(F15) Cylinder Cap. (F16 or F17) Cylinder Rod. (F18) O-ring Seal. (F19) Cylinder Piston (with seal). (F20) Self Locking Nut.
9. Lubricate cylinder tube (F21) bore, piston (F19) seals, and cylinder cap (F15) seals. Install cylinder rod (F16) assembly into the cylinder tube, being careful not to damage any seals.

(F16 or F17) Cylinder Rod. (F21) Cylinder Tube.

10. Push cylinder rod (F16 or F17) into cylinder tube (F21) until snap ring (F14) in piston groove contacts the top of the tube.

11. Use heavy-duty snap ring pliers to completely compress snap ring (F14). Push cylinder cap (F15) into cylinder tube (F21) until the snap ring is engaged inside the tube.

**WARNING**

Make sure snap ring is completely seated in cylinder tube groove. Failure to seat snap ring in groove can cause the cylinder cap to be explosively ejected from the tilt cylinder tube when hydraulic pressure is applied, resulting in serious injury or even death.

11. Continue pushing cylinder cap (F15) into cylinder tube (F21) until snap ring (F14) is completely seated in the cylinder tube snap ring groove.

**NOTE:** It may be necessary to use a soft (brass or wood) drift to tap the cylinder cap and snap ring into place. Use caution not to damage the aluminum cylinder cap.

12. Install the tilt cylinder assembly on the base plate with mounting pins (F7 and/or F8) and Lynch pins. Reconnect hydraulic hoses (H5).

(F7) Mounting Pin. (F8) Mounting Pin. (H5) Hydraulic Hoses.
Three-Point Hitch/Post Driver Assembly

1. With road lock pin (B8) installed in the lower hole of drive ram (A1), use a suitable overhead lifting device to raise (stand up) main carriage channel assembly (B1).

   (A1) Drive Ram.  (B1) Main Carriage Channel Assembly.  (B8) Road Lock Pin.

   **WARNING**
   
The main carriage channel assembly is tall and heavy. To avoid tip over, resulting in serious injury or death, leave the overhead lifting device attached to the main carriage channel while assembling components.

2. To assemble three-point hitch and Post Driver upright assembly after service, refer to Step 3 through Step 5 in the Assembly Procedure, Base Plate section in this manual.
### Driver Assembly

**HD-8 Service Parts - Driver Assembly**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
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<tbody>
<tr>
<td>A1</td>
<td>SM-0011-DRC</td>
<td>Driving Ram Complete Unit</td>
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<tr>
<td>A2</td>
<td>SM-00512</td>
<td>Guide Block</td>
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<tr>
<td>A3</td>
<td>SM-0933-(18 ga)</td>
<td>Shim</td>
<td>4</td>
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<tr>
<td>A4</td>
<td>SM-0011-G</td>
<td>Rubber Debris Guard</td>
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<tr>
<td>A5</td>
<td>SM-0011-MRO</td>
<td>Driving Ram Vineyard</td>
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</tr>
<tr>
<td>A6</td>
<td>SM-0935-(10 ga)</td>
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<tr>
<td>A7</td>
<td>SM-0011-SBU</td>
<td>Guide Pins</td>
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<td>A8</td>
<td>SM-0263</td>
<td>Cylinder Assembly</td>
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<td>A9</td>
<td>SM-0264</td>
<td>Cylinder Tube</td>
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<td>A10</td>
<td>SM-0266</td>
<td>Cylinder Piston/Rod</td>
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<td>A11</td>
<td>SM-0267</td>
<td>Piston Self Locking Nut</td>
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<td>A12</td>
<td>SM-018</td>
<td>Cylinder Nut (with setscrew)</td>
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<td>A13</td>
<td>SM-0268</td>
<td>Lock Washer</td>
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<td>A14</td>
<td>SM-0262-D</td>
<td>Cylinder Cap (with seal)</td>
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<td>A15</td>
<td>SM-02613</td>
<td>Lower Spring Bracket Lock Nut</td>
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<td>A16</td>
<td>SM-0011-SBL</td>
<td>Lower Spring Bracket</td>
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<td>SM-0011-DRS</td>
<td>Spring (with clips installed)</td>
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<td>A18</td>
<td>SM-0011-SC</td>
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<td>SM-0011-BS</td>
<td>Guide Pins</td>
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<td>A22</td>
<td>SM-0011-LYT</td>
<td>Lift Yoke Bar</td>
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<td>A23</td>
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### Driving Ram Weldment Parts

**HD-8 Service Parts - Driving Ram Weldment**

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<td>SM-02613</td>
<td>Lower Spring Bracket Lock Nut</td>
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<td>A25</td>
<td>SM-0011-LYT</td>
<td>Lift Yoke Top</td>
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1. Special U-Shaped Ram for Vineyard Application.  
2. SM-0011-G Includes Items A5, L8, A7, A8, and A9.  
3. SM-0041-B Includes Items B3, and B5.

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1. Replacement Of These Parts Requires Removal Of Old Parts With A Cutting Torch And/Or Grinding Wheel. New (Replacement) Parts Must be Welded To Driving Ram. This Type Of Repair Voids Any Warranties.
## Manual Base Plate Assembly

### HD-8 Service Parts - Manual Base Plate Assembly

<table>
<thead>
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<tr>
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<td>Short Channel (manual)</td>
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<td>D6</td>
<td>SM-014</td>
<td>Channel Mounting Pin</td>
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<td>D7</td>
<td>SM-2025-LP</td>
<td>Lynch Pin</td>
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<td>E1</td>
<td>SM-015-BPC</td>
<td>Complete Base Plate Assembly ¹</td>
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<td>E2</td>
<td>SM-015</td>
<td>Manual Base Plate</td>
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<tr>
<td>E3</td>
<td>SM-016</td>
<td>Side Tilt Crank</td>
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<td>E4</td>
<td>S-20</td>
<td>Flat Washer</td>
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<td>E5</td>
<td>SM-017</td>
<td>Side Tilt Crank Sleeve</td>
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<td>E6</td>
<td>SM-018</td>
<td>Side Tilt Crank Nut (with setscrew)</td>
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<td>E7</td>
<td>SM-2025-SB</td>
<td>Side Tilt Crank Screw Block</td>
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<td>Screw Block Mounting Bolt, 5/16-18 x 3”</td>
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<td>E9</td>
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<td>Screw Block Lock Washer 5/16”</td>
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<td>E10</td>
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<td>Screw Block Mounting Nut, 5/16-18</td>
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<td>Base Plate Mounting Bolt, 1/2-13 x 1-1/2”</td>
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<td>E15</td>
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<td>Base Plate Flat Washer, 1/2”</td>
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<td>Base Plate Lock Washer, 1/2”</td>
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<tr>
<td>E17</td>
<td>—</td>
<td>Base Plate Mounting Nut, 1/2-13</td>
<td>4</td>
</tr>
<tr>
<td>E18</td>
<td>SM-015-CC</td>
<td>Crank Handle Cover</td>
<td>2</td>
</tr>
<tr>
<td>E19</td>
<td>—</td>
<td>Crank Screw Block Support</td>
<td>1</td>
</tr>
<tr>
<td>G1</td>
<td>P-5000</td>
<td>Hydraulic Control Valve</td>
<td>1</td>
</tr>
<tr>
<td>G2</td>
<td>—</td>
<td>Valve Mounting Bolt, 5/16-18 x 2-1/2”</td>
<td>3</td>
</tr>
<tr>
<td>G3</td>
<td>—</td>
<td>Valve Mounting Washer, 5/16”</td>
<td>3</td>
</tr>
<tr>
<td>G4</td>
<td>—</td>
<td>Valve Mounting Nut, 5/16-18</td>
<td>3</td>
</tr>
<tr>
<td>G5</td>
<td>P5003</td>
<td>Control Valve Lever (with Safety Handle)</td>
<td>1</td>
</tr>
<tr>
<td>G6</td>
<td>—</td>
<td>Control Valve Lever Knob</td>
<td>1</td>
</tr>
</tbody>
</table>

¹ Includes Short Channel, Pins, Cranks, Stops, Etc.
² Or S-095 Nut (with setscrew).
³ S-092 Kit Includes Items E14, E15, E16, and E17.

**NOTE:** All hardware is Grade 5.
Hydraulic Base Plate Assembly
## Hydraulic Base Plate Assembly

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
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<tbody>
<tr>
<td>D2</td>
<td>HBP-909</td>
<td>Short Channel (hydraulic)</td>
<td>1</td>
</tr>
<tr>
<td>D6</td>
<td>SM-014</td>
<td>Channel Mounting Pin</td>
<td>2</td>
</tr>
<tr>
<td>D7</td>
<td>SM-2025-LP</td>
<td>Lynch Pin</td>
<td>10</td>
</tr>
<tr>
<td>E14</td>
<td>—</td>
<td>Base Plate Mounting Bolt,</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/2-13 x 1-1/2&quot;</td>
<td>1</td>
</tr>
<tr>
<td>E15</td>
<td>—</td>
<td>Base Plate Flat Washer, 1/2&quot;</td>
<td>4</td>
</tr>
<tr>
<td>E16</td>
<td>—</td>
<td>Base Plate Lock Washer, 1/2&quot;</td>
<td>4</td>
</tr>
<tr>
<td>E17</td>
<td>—</td>
<td>Base Plate Mounting Nut,</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/2-13</td>
<td>1</td>
</tr>
<tr>
<td>F1</td>
<td>HD-8-HCK</td>
<td>Hydraulic Conversion Kit ^2</td>
<td>1</td>
</tr>
<tr>
<td>F2</td>
<td>HBP-90811</td>
<td>Hydraulic Base Plate</td>
<td>1</td>
</tr>
<tr>
<td>F3/F4</td>
<td>HBP-908120</td>
<td>Cylinder Kit Complete ^3</td>
<td>1</td>
</tr>
<tr>
<td>F3</td>
<td>HBP-90812</td>
<td>Forward Tilt Cylinder</td>
<td>1</td>
</tr>
<tr>
<td>F4</td>
<td>HBP-90813</td>
<td>Side Tilt Cylinder</td>
<td>1</td>
</tr>
<tr>
<td>F5</td>
<td>HBP-908131</td>
<td>Cylinder Seal Kit (Fwd &amp; Side)</td>
<td>1</td>
</tr>
<tr>
<td>F6</td>
<td>HBP-908132</td>
<td>90° Fittings ^4</td>
<td>4</td>
</tr>
<tr>
<td>F7</td>
<td>HBP-908133</td>
<td>Cylinder Mounting Pin</td>
<td>2</td>
</tr>
<tr>
<td>F8</td>
<td>HBP-908134</td>
<td>Side Tilt Mounting Pin</td>
<td>1</td>
</tr>
<tr>
<td>F9</td>
<td>—</td>
<td>Cylinder Stop Plate, 8.5&quot;</td>
<td>5</td>
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<tr>
<td>F10</td>
<td>—</td>
<td>Cylinder Stop Plate, 10.5&quot;</td>
<td>1</td>
</tr>
<tr>
<td>F11</td>
<td>—</td>
<td>Cylinder Stop Bolt, 1/2-13  x 1-3/4&quot;</td>
<td>1</td>
</tr>
<tr>
<td>F12</td>
<td>—</td>
<td>Cylinder Stop Lock Washer, 1/2&quot;</td>
<td>1</td>
</tr>
<tr>
<td>F13</td>
<td>—</td>
<td>Cylinder Stop Nut, 1/2-13</td>
<td>1</td>
</tr>
<tr>
<td>H2</td>
<td>P-5300</td>
<td>Hydraulic Control Valve</td>
<td>1</td>
</tr>
<tr>
<td>—</td>
<td>P-5301</td>
<td>Seal Kit for P-5300 Valve</td>
<td>1</td>
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<tr>
<td></td>
<td></td>
<td>(not shown)</td>
<td></td>
</tr>
<tr>
<td>H5</td>
<td>SM-02111-P</td>
<td>Tilt Cylinder Hose</td>
<td>4</td>
</tr>
<tr>
<td>L10</td>
<td>MS-171</td>
<td>High Pressure Warning Decal</td>
<td>2</td>
</tr>
</tbody>
</table>

^1 HD-8-HCK Kit Includes Items D2, F2, and HBP-908120 Kit.

^2 HBP-908120 Kit Includes Items F3, F4, and F9 Through F13.

^3 S-092 Kit Includes Items E14, E15, E16, and E17.

^4 Not Used On All Models.

^5 HBP-908-CS Kit Contains Items F9, F10, F11, F12, and F13.

**NOTE:** All hardware is Grade 5.
### Three-Point Hitch Assembly

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
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<tbody>
<tr>
<td>B8</td>
<td>SM-1041-RLP</td>
<td>Upper Link Hitch Pin</td>
<td>1</td>
</tr>
<tr>
<td>B9</td>
<td>SM-2025-LP</td>
<td>Lynch Pin</td>
<td>1</td>
</tr>
<tr>
<td>K1</td>
<td>MB-01-A</td>
<td>Three-Point Hitch Weldment</td>
<td>1</td>
</tr>
<tr>
<td>K2</td>
<td>OS-4-22SFB</td>
<td>Leg Bracket Weldment</td>
<td>2</td>
</tr>
<tr>
<td>K3</td>
<td>—</td>
<td>Leg Brkt Bolt, 1/2-13 x 4&quot;</td>
<td>2</td>
</tr>
<tr>
<td>K4</td>
<td>—</td>
<td>Leg Brkt Flat Washer, 1/2&quot;</td>
<td>2</td>
</tr>
<tr>
<td>K5</td>
<td>—</td>
<td>Leg Brkt Lock Washer 1/2&quot;</td>
<td>2</td>
</tr>
<tr>
<td>K6</td>
<td>—</td>
<td>Leg Bracket Nut, 1/2-13</td>
<td>2</td>
</tr>
<tr>
<td>K7</td>
<td>OS-4-22</td>
<td>Stabilizer Leg</td>
<td>2</td>
</tr>
<tr>
<td>K8</td>
<td>—</td>
<td>Stabilizer Leg Lock Bolt, 5/8-11 x 1-1/2&quot;</td>
<td>2</td>
</tr>
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</table>

### Hydraulic Hoses

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>G15</td>
<td>SM-023-P</td>
<td>Valve to Drive Ram Hose</td>
<td>1</td>
</tr>
<tr>
<td>G17</td>
<td>SM-024-P</td>
<td>Power Supply to Valve Hose</td>
<td>1</td>
</tr>
<tr>
<td>G20</td>
<td>SM-025-R</td>
<td>Valve to Tank Return Hose</td>
<td>1</td>
</tr>
</tbody>
</table>

* 1/2" ID x 35" long.  
* 3/8" ID x 120" long.  
* 3/4" ID x 120" long.

### Safety Arm Assembly

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>I1</td>
<td>SM-0011-SAA</td>
<td>Safety Arm Attachment</td>
<td>1</td>
</tr>
<tr>
<td>I2</td>
<td>SM-0011-SAAC</td>
<td>Safety Arm Frame</td>
<td>1</td>
</tr>
<tr>
<td>I3</td>
<td>—</td>
<td>Frame Mounting Bolt, 3/4-13 x 2&quot;</td>
<td>2</td>
</tr>
<tr>
<td>I4</td>
<td>—</td>
<td>Self Locking Nut, 3/4-13</td>
<td>2</td>
</tr>
<tr>
<td>I5</td>
<td>SM-0011-SAAD</td>
<td>Swing Arm Handle</td>
<td>1</td>
</tr>
<tr>
<td>I6</td>
<td>SM-0011-SAA15</td>
<td>Roller Holder Swivel</td>
<td>1</td>
</tr>
<tr>
<td>I7</td>
<td>SM-0011-SAA16</td>
<td>Roller</td>
<td>2</td>
</tr>
<tr>
<td>I8</td>
<td>—</td>
<td>Roller Retainer Roll Pin</td>
<td>2</td>
</tr>
<tr>
<td>I9</td>
<td>—</td>
<td>Roller Bracket Nut, 3/4-13</td>
<td>1</td>
</tr>
<tr>
<td>I10</td>
<td>SM-0011-SAA2</td>
<td>Latch Spring</td>
<td>1</td>
</tr>
<tr>
<td>I11</td>
<td>SM-0011-SAA7</td>
<td>Flat Washer, 3/4&quot;</td>
<td>2</td>
</tr>
<tr>
<td>I12</td>
<td>SM-015-CC</td>
<td>Swing Arm Handle Cover</td>
<td>1</td>
</tr>
<tr>
<td>I13</td>
<td>SM-2025-LP</td>
<td>Lynch Pin, 3/16 x 1-7/8&quot;</td>
<td>3</td>
</tr>
<tr>
<td>L1</td>
<td>MS-165</td>
<td>Small “SHAVER” Decal</td>
<td>1</td>
</tr>
<tr>
<td>L4</td>
<td>MS-166</td>
<td>Safety Arm Decal</td>
<td>1</td>
</tr>
<tr>
<td>L6</td>
<td>MS-181</td>
<td>Pinch Area Warning Decal</td>
<td>1</td>
</tr>
</tbody>
</table>

* Complete Safety Arm Kit (parts I2 through L6).

1 SM-0011-SAA13C Includes Items I6, I7, and I8.
### Replacement Decals

**HD-8 Service Parts - Replacement Decals**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
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<tbody>
<tr>
<td>L1</td>
<td>MS-165</td>
<td>Small SHAVER Decal</td>
<td>1</td>
</tr>
<tr>
<td>L2</td>
<td>MS-161</td>
<td>Large SHAVER Decal</td>
<td>1</td>
</tr>
<tr>
<td>L3</td>
<td>MS-169</td>
<td>Control Valve Decal</td>
<td>1</td>
</tr>
<tr>
<td>L4</td>
<td>MS-166</td>
<td>Safety Arm Decal</td>
<td>1</td>
</tr>
<tr>
<td>L5</td>
<td>MS-163</td>
<td>Pinch Area Warning Decal</td>
<td>1</td>
</tr>
<tr>
<td>L6</td>
<td>MS-181</td>
<td>Pinch Point Warning Decal</td>
<td>1</td>
</tr>
<tr>
<td>L7</td>
<td>MS-280</td>
<td>FEMA Member Decal</td>
<td>1</td>
</tr>
<tr>
<td>L8</td>
<td>SM-0011-ST</td>
<td>Caution Tag</td>
<td>1</td>
</tr>
<tr>
<td>L9</td>
<td>MS-180</td>
<td>Cylinder Shaft Loose Decal</td>
<td>1</td>
</tr>
<tr>
<td>L10</td>
<td>MS-171</td>
<td>High-Pressure Warning Decal</td>
<td>1</td>
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</tbody>
</table>

### Document Tube

**HD-8 Service Parts - Document Tube**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1</td>
<td>ODMAN</td>
<td>Document Tube (with rivets)</td>
<td>1</td>
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</tbody>
</table>
Hydraulic Control Valves

Single Control Lever Valve

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1</td>
<td>P-5000</td>
<td>Control Valve (Complete)</td>
<td>1</td>
</tr>
<tr>
<td>G5</td>
<td>P-5003</td>
<td>Control Valve Lever Kit 1</td>
<td>1</td>
</tr>
<tr>
<td>G7</td>
<td>GS-001</td>
<td>Control Valve Safety Lever</td>
<td>1</td>
</tr>
<tr>
<td>G8</td>
<td>GS-001-2</td>
<td>Safety Lever Plastic Cap</td>
<td>1</td>
</tr>
<tr>
<td>G9</td>
<td></td>
<td>Safety Lever Stop Setscrew</td>
<td>1</td>
</tr>
<tr>
<td>G10</td>
<td>GS-001-3</td>
<td>Safety Lever Return Spring</td>
<td>1</td>
</tr>
<tr>
<td>G11</td>
<td></td>
<td>Lever Clevis Pin (short)</td>
<td>1</td>
</tr>
<tr>
<td>G12</td>
<td></td>
<td>Lever Clevis Pin (long)</td>
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<tr>
<td>G13</td>
<td></td>
<td>Cotter Pin (not shown)</td>
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</tr>
<tr>
<td>G14</td>
<td>P-5007</td>
<td>Closed Center Plug Kit 2</td>
<td>1</td>
</tr>
<tr>
<td>G16</td>
<td>HPB-908182</td>
<td>Pipe Fitting, 1/2&quot; NPT 90° Elbow 1</td>
<td>1</td>
</tr>
<tr>
<td>G18</td>
<td>HPB-908183</td>
<td>Fitting, 3/4&quot; to 3/8&quot; NPT Reducer 1</td>
<td>1</td>
</tr>
<tr>
<td>G19</td>
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<td>Pipe Fitting, 3/8&quot; NPT 90° Elbow</td>
<td>1</td>
</tr>
<tr>
<td>G21</td>
<td>HPB-908184</td>
<td>Pipe Fitting, 3/4&quot; NPT 90° Elbow 1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>P-5001</td>
<td>Seal Kit for P-5000 Valve</td>
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</tbody>
</table>

Part of P-5003 Handle Kit (Section 1).

Expanded View Of Safety Lever Assembly

NOTE: For more information on hydraulic valve parts, contact the following suppliers:

- Gresen valve (painted red):
  Parker Hannifin Corporation
  Phone (440)-366-5200

- Prince valve (painted black):
  Prince Manufacturing Corporation
  Phone (605) 235-1220
## Drive Cylinder Assembly

![Drive Cylinder Assembly Image]

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>SM-0263</td>
<td>Drive Ram Cylinder (Complete)</td>
<td>1</td>
</tr>
<tr>
<td>C2</td>
<td>SM-0264</td>
<td>Drive Ram Cylinder Tube</td>
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</tr>
<tr>
<td>C3</td>
<td>SM-0266</td>
<td>Drive Ram Cylinder Piston Rod</td>
<td>1</td>
</tr>
<tr>
<td>C4</td>
<td>SM-0267</td>
<td>Self Locking Nut</td>
<td>1</td>
</tr>
<tr>
<td>C5</td>
<td>SM-018</td>
<td>Nut With Setscrew</td>
<td>1</td>
</tr>
<tr>
<td>C6</td>
<td>SM-0268</td>
<td>Spring Lock Washer</td>
<td>1</td>
</tr>
<tr>
<td>C7</td>
<td>SM-0262-D</td>
<td>Cylinder Cap With Seal</td>
<td>1</td>
</tr>
<tr>
<td>C9</td>
<td>SM-0265-D</td>
<td>Cylinder Cap Seal Only</td>
<td>1</td>
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<tr>
<td>C10</td>
<td>SM-02610</td>
<td>Piston Rod Guide</td>
<td>1</td>
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<tr>
<td>C11</td>
<td>SM-0269</td>
<td>Self Locking Piston Guide Nut</td>
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</table>
## Tilt Cylinder Assembly

### HD-8-H Service Parts - Fwd & Side Tilt Cylinder Assembly

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F3</td>
<td>HBP-90812</td>
<td>Forward Tilt Cylinder</td>
<td>1</td>
</tr>
<tr>
<td>F4</td>
<td>HBP-90813</td>
<td>Side Tilt Cylinder</td>
<td>1</td>
</tr>
<tr>
<td>F5</td>
<td>HBP-908131</td>
<td>Tilt Cylinder Seal Kit</td>
<td>2</td>
</tr>
<tr>
<td>F14</td>
<td>HBP-908139</td>
<td>Snap Ring</td>
<td>1</td>
</tr>
<tr>
<td>F15</td>
<td>HBP-908136</td>
<td>Tilt Cylinder Cap/Gland</td>
<td>1</td>
</tr>
<tr>
<td>F16</td>
<td>HBP-90813-A</td>
<td>Side Tilt Cylinder Rod</td>
<td>1</td>
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<tr>
<td>F17</td>
<td>HBP-908121</td>
<td>Forward Tilt Cylinder Rod</td>
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<tr>
<td>F18</td>
<td>—</td>
<td>O-Ring Seal</td>
<td>3</td>
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<tr>
<td>F19</td>
<td>HBP-908137</td>
<td>Cylinder Piston</td>
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<td>F20</td>
<td>HBP-908138</td>
<td>Piston Rod Self Locking Nut</td>
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<tr>
<td>F21</td>
<td>HBP-90809</td>
<td>Fwd. Tilt Cylinder Tube Only</td>
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<tr>
<td>F22</td>
<td>—</td>
<td>External O-Ring Seal</td>
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<tr>
<td>F23</td>
<td>—</td>
<td>Internal O-Ring Seal</td>
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<tr>
<td>F24</td>
<td>—</td>
<td>Internal Lip Seal</td>
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</tr>
<tr>
<td>F25</td>
<td>—</td>
<td>Scraper Seal</td>
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</tr>
<tr>
<td>F26</td>
<td>—</td>
<td>O-Ring Seal</td>
<td>3</td>
</tr>
<tr>
<td>F27</td>
<td>HBP-90810</td>
<td>Side Tilt Cylinder Tube Only</td>
<td>1</td>
</tr>
<tr>
<td>L10</td>
<td>MS-171</td>
<td>High-Pressure Warning Decal</td>
<td>1</td>
</tr>
</tbody>
</table>

1. Complete Tilt Cylinder-New Design (Elbow Fittings Not Required).
2. Not Shown.
3. Part of HBP-908131 Seal Kit (F5).
Limited Warranty

Shaver Manufacturing Company, LLC warrants each new Shaver product to be free from defects in material and workmanship. This warranty is applicable only for the normal service life expectancy of the product or components, not to exceed 12 consecutive months from the date of delivery of the new Shaver product to the original purchaser.

Genuine Shaver replacement parts and components will be warranted for 90 days from the date of purchase, or the remainder of the original equipment warranty period, whichever is longer.

Rubber Bumpers, Carbide Teeth, Auger Teeth and Auger Points are usable parts and not covered by warranty. Part No. SD-101-GB and SD-0301-GB Gearbox are warranted for 3 years from the date of purchase. Part No. SD-0607-GB and SD-0907-GB Gearbox are warranted for 5 years from the date of purchase. Part No. SL-2030-1 5” Cylinder for the Logsplitter is warranted for 4 years from the date of purchase. Driving Ram Springs are warranted for 60 days from the date of purchase for residential customers and 30 days from the date of purchase with a limit of 2 claims per serial numbered unit for commercial users. Tires are warranted for 90 days from the date of purchase.

Under no circumstances will it cover any merchandise or components thereof, which, in the opinion of the company, have been subjected to misuse, unauthorized modification, alteration, an accident, or if a repair has been made with parts other than those obtainable through Shaver.

Our obligation under this warranty shall be limited to repairing or replacing any part that, in our judgment, shall show evidence of such defect, provided further that such part shall be returned within thirty (30) days from the date of failure to Shaver, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid. All returned items must have an RGA number. Contact Shaver at 712-859-3293 to get authorization to return, file your warranty claim and, if needed, an RGA will be provided.

This warranty shall not be interpreted to render Shaver liable for injury or damages of any kind or nature to person or property. This warranty does not extend to the loss of crops, loss because of delay in harvesting, or any expense or loss incurred for labor, substitute machinery, rental, or for any other reason.

Except as set forth above, **Shaver shall have no obligation or liability of any kind on account of any of its equipment and shall not be liable for special or consequential damages.** Shaver makes no other warranty, expressed or implied, and specifically, Shaver disclaims any implied warranty of merchantability or fitness for a particular purpose. Some states or provinces do not permit limitations or exclusions of implied warranties or incidental or consequential damages, so the limitations or exclusion in this warranty may not apply.

This warranty is subject to any existing conditions of supply which may directly affect our ability to obtain materials or manufacture replacement parts.

Shaver reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligation to owners of units previously sold.

No one is authorized to alter, modify, or enlarge this warranty, nor the exclusion, limitations, and reservations.

**Effective January 1, 2009**
Warranty Card
The Post Driver is shipped from the factory with a warranty card. If the card is lost or misplaced, please copy this page, fill in the information, and send it to Shaver Manufacturing Company.

Warranty Card
Please complete the warranty card and return to:
Shaver Manufacturing Company
103 South Washington Avenue
P.O. Box 358
Graettinger, Iowa 51342

Purchase / Deliver Date _________________
Serial Number _________________________
Model Number _________________________