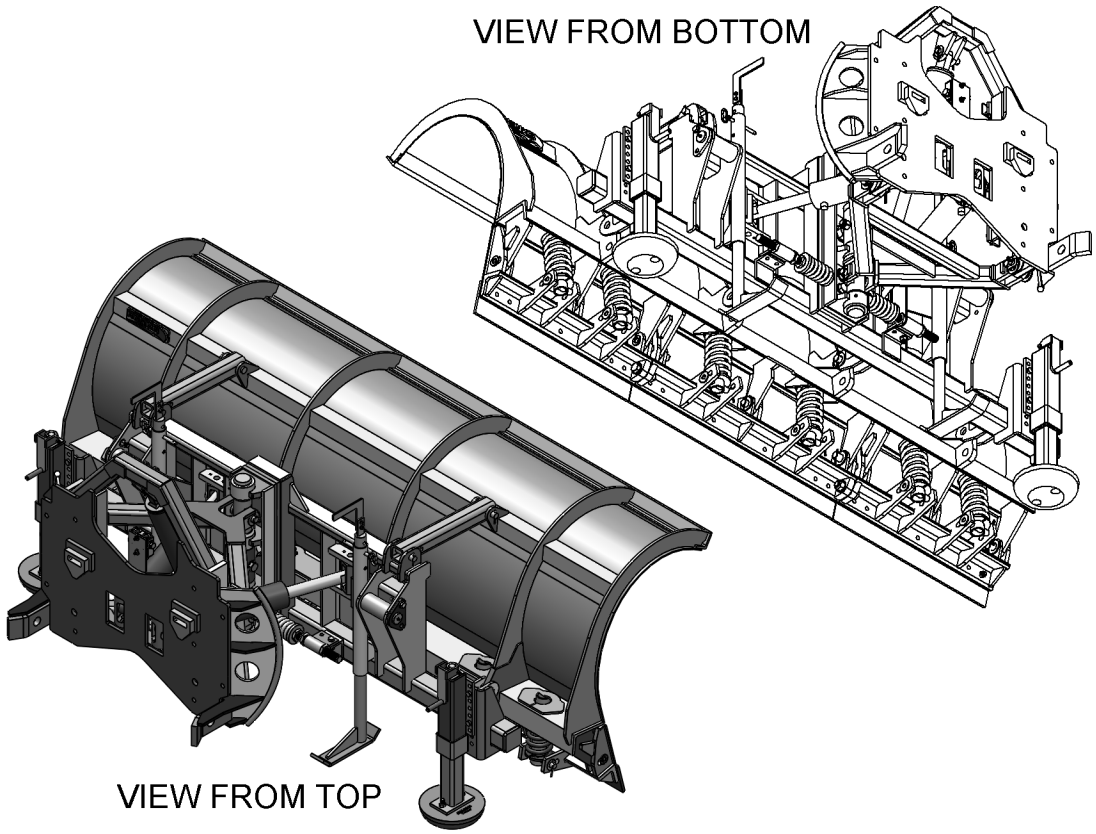
PARALLEL LIFT PLOW, COMPRESSION TRIP EDGE

HENKE MODEL: PLP, CTE 1-3

Medium to Heavy Duty Trucks



PARTS AND INSTALLATION MANUAL: # 8400082-01

VERSION 017, SEPTEMBER 2016

MY SERIAL NUMBER: _____

HENKE MANUFACTURING CORPORATION

MANUFACTURERS OF SNOW REMOVAL EQUIPMENT FOR 100 YEARS

3070 WILSON AVE.LEAVENWORTH, KS 66048

Phone:(913) 682-9000Fax: (913) 682-0300

www.henkemfg.com, parts@henkemfg.com

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Introduction

Thank you for your purchase of a HENKE Parallel Lift, Compression Trip Edge Plow (PLP, CTE 1-3). This Parts and Installation Manual should be read in its entirety, including the safety section, before installation, operation, or maintenance is performed to minimize installation and operation problems.

In addition to their field-proven standard units, Henke designs and manufactures many plows and hitches to meet specific customer requirements.

The Parallel Lift, Compression Trip Edge Plow includes the following features:

Product Features:

- 10 gauge rolled plate steel moldboard.
- Plasma-cut moldboard ribs standard.
- Moldboards available in a variety of shapes, including straight Reversible, One Way, and Expressway; and with options such as mailbox cutouts or “Mouse Ears” (discharge ears).
- Multiple trip, hitch, and running gear options available.
- “Integral Snow Shield” prevents snow from blowing over top of moldboard.
- Double-acting reversing cylinders with Polypak rod seals.
- Cushion relief valve and hydraulic quick couplers standard.
- Water drainage ports in ribs to prevent water from pooling when plow is stored.
- Wide variety of cutting edges, curb guards, and wear guards available.
- Many other options available, including rubber shields, rod markers, jack stands, etc.
- Every Lift Guaranteed to be Parallel with our Parallel Lift System.

The field hardware required to install your new Henke product is listed in tables in the parts section of this book. Be sure to check that all parts listed in this document were shipped with your Plow (either attached or loose). In the unlikely situation that parts are missing please contact **Henke Manufacturing** at **(913) 682-9000** or **parts@henkemfg.com** before continuing the installation.

Parts And Service Inquiries

Please contact your local Henke dealer, which can be located using our website dealer locator: http://henkemfg.com/dealer-locator/

Dealers and individual owners without a local dealer can contact us via email, website, or phone.


parts@henkemfg.com


http://henkemfg.com/parts-and-service/


888 682-9010 x3

This will direct your inquiry to the entire parts and service team, insuring the most prompt attention possible. All inquiries are processed in the order they are received.

NOTE:	We can prepare a personalized wear parts recommendation and optionally include your seasonal purchasing summary. Just ask.

We truly appreciate your business.

Henke Parts & Service Team

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CHAPTER 1: SAFETY

PLEASE READ ENTIRE BOOK BEFORE INSTALLATION, IMPLEMENTATION, OR MAINTENANCE.

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SAFETY SECTION

Fixed Front Plows
Reversible Front Plows
COMBOS
Lift Groups
Underbody Scrapers
Dozer Blades
MATs
Hitches
Wings
HiGates

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SAFETY

GENERAL SAFETY INSTRUCTIONS AND PRACTICES

A careful operator is the best operator. Safety is of primary importance to the manufacturer and should be to the owner/operator. Most accidents can be avoided by being aware of your equipment, your surroundings, and observing certain precautions. The first section of this manual includes a list of Safety Messages that, if followed, will help protect the operator and bystanders from injury or death. Read and understand these Safety Messages before assembling, operating or servicing this Implement. This equipment should only be operated by those persons who have read the manual, who are responsible and trained, and who know how to do so responsibly.

The Safety Alert Symbol combined with a Signal Word, as seen below, is used throughout this manual and on decals which are attached to the equipment. The Safety Alert Symbol means: “ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!” The Symbol and Signal Word are intended to warn the owner/operator of impending hazards and the degree of possible injury faced when operating this equipment.

Practice all usual and customary safe working precautions and above all---remember safety is up to YOU. Only YOU can prevent serious injury or death from unsafe practices.

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

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

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

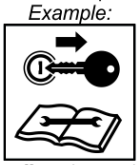
Important Identifies special instructions or procedures that, if not strictly observed, could result in damage to, or destruction of the machine, attachments or the environment.

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

READ, UNDERSTAND, and FOLLOW the following Safety Messages. Serious injury or death may occur unless care is taken to follow the warnings and instructions stated in this Manual and in the Safety Messages on the implement. Always follow the instruction in this manual and use good common sense to avoid hazards.



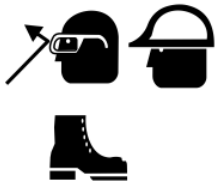
Pictographs are used throughout this manual to help bring your visual attention to safety issues.

SAFETY HAZARD	SAFETY AVOIDANCE	SAFETY PREVENTION
Pictograph surrounded by a triangle indicates a Safety Hazard that must be avoided. *Example:*  Equipment contacting overhead electrical lines	Pictograph by itself or inside a box indicates an avoidance procedure that should be followed to prevent injuries. *Example:*  Always shut off engine and remove key before working on equipment.	A circle with a slash through it indicates an action that is prohibited. *Example:*  No Smoking

NOTE: *If you want a translation of this safety section in one of the following Languages, please contact: Translations at 1502 E. Walnut Street Seguin, TX 78155; Fax: (830) 372-9529; Safety Section Translations are available in Spanish, Portuguese, French, German, Russian.* **P-GS-01**

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OPERATOR SAFETY

			
Read and understand Operator's Manual	Wear Hard Hat, Safety Glasses & Safety Shoes	Never use Drugs or Alcohol when operating equipment	Wear Safety Vest when operating on or near roads

WARNING **TO AVOID SERIOUS INJURY OR DEATH DO THE FOLLOWING:**

- **READ, UNDERSTAND** and **FOLLOW** Operator's Manual instructions, Warnings and Safety Messages.
- **WEAR SAFETY GLASSES**, safety shoes, hard hat and gloves when operating or repairing equipment
- **DO NOT WEAR** loose clothing or jewelry to avoid rotating parts entanglement injury.
- **DO NOT USE DRUGS** or **ALCOHOL** before or while operating equipment.
- **DO NOT ALLOW** anyone to operate equipment under the influence of drug or alcohol.
- **CONSULT** medical professional for medication impairment side effects.
- **STAY ALERT**, prolonged operation can cause fatigue; **STOP** and **REST**.

GENERAL OPERATING SAFETY

VISIBILITY CONDITIONS WHEN PLOWING:

- **OPERATE IN DAYLIGHT** or with lights that give at least 100 yards clear visibility.
- **BE ABLE TO SEE** and identify passersby, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris and foreign objects.

GROUND SPEED WHEN PLOWING:

- **NORMAL SPEED** range is between 5 to 45mph.
- **ADJUST plowing SPEED** for terrain conditions.
- **REDUCE plowing SPEED** when near steep slopes, ditches, drop-offs, overhead obstructions, and power lines.

SAFETY SIGNS AND WARNING DECALS:

- **REPLACE** missing, damaged or unreadable safety signs immediately.

SHIELDING:

- **NEVER** remove protective shields and guards! **NEVER** modify or cut protective shields or guards!

PROLONGED OPERATION IN COLD WEATHER:

- May Cause Operator Hypothermia affecting safe operation of implement.
- Wear appropriate clothing and take scheduled breaks.
- If possible shut down equipment, exit cab, and warm body in properly heated area.
- **NEVER** operate implement in fatigued or impaired mental state.

COMMUNICATION:

- Verbal Communication can be difficult and dangerous near implement.
- Operating instructions and directions should be made prior to starting implement.
- If communication is necessary completely shutdown and exit implement.
- **NEVER** allow anyone to approach implement while in operation.

RIDING PASSENGERS:

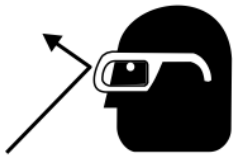
- Never allow passengers whose presence distracts from safe operation or transporting of implement
- If passengers presence is needed, passenger must be seated securely and belted in passenger seat.
- DO NOT allow passenger in any other area of implement, other than in passenger seat during operation or transport.

CHEMICAL HAZARD

- Wear appropriate PPE when handling chemicals. Refer to Chemical MSDS sheets.
- Always wear safety glasses, shield, gloves, and apron.
- Wear Respirator when required. ***PN P-OS-01***

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PERSONAL PROTECTION EQUIPMENT - PPE

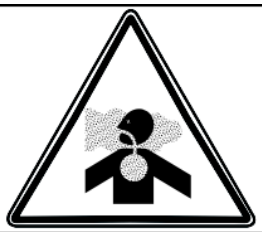
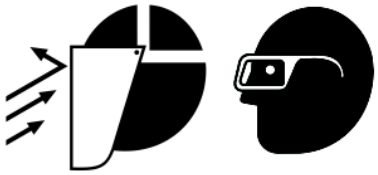
			
Wear Safety Glasses	Wear Hard Hat	Wear Safety Shoes & Protective Gloves	Wear Safety Reflective Vest

Always wear all protective clothing and personal safety devices issued to you or called for by job conditions. This should always include:

- Hard hat - when working around raised hopper.
- Steel toed Safety shoes.
- Safety glasses, goggles or face shield.
- Close fitted clothing.
- Heavy gloves (chemical resistant).
- Reflective clothing.

PN PPE-02

SALT AND MATERIAL SPREADING

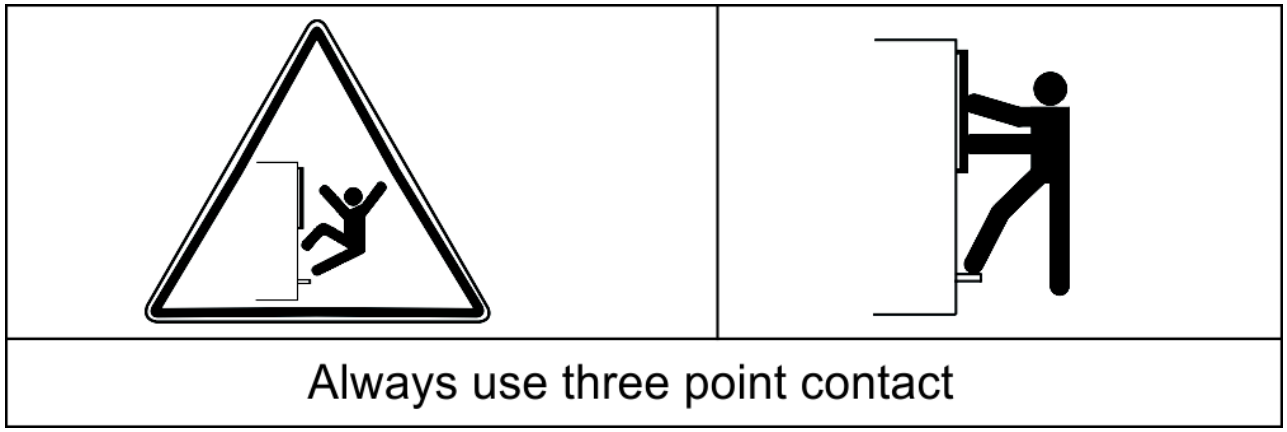
		
Wear Respirator	Chemical, Dust Hazard	Wear face protection - Face Shield or Goggles

When spreading salt or other materials make sure to wear appropriate protective clothing and personal safety devices such as respirator, heavy gloves that are chemical resistant, face shield, or goggles.

PN PPE-03

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CRUSHING HAZARDS



DANGER **TO AVOID SERIOUS INJURY OR DEATH FROM FALLING OFF VEHICLE, EQUIPMENT RUN OVER, ROLLOVER AND CRUSHING BY FALLING IMPLEMENT:**

CRUSHING BY FALLING from EQUIPMENT

- **ALWAYS BUCKLE UP** seat belt when operating vehicle and equipment.
- **ONLY OPERATE** vehicle and equipment while seated in vehicle seat.
- **STOP VEHICLE ENGINE**, place transmission into park, engage parking brake, and remove key.

TO AVOID FALLING OFF OR BEING CRUSHED BY EQUIPMENT

- Use extreme care when climbing onto vehicle or attachment. Also always use three point contact using available handles and steps on vehicle or power unit while exiting.
- Removing the vehicle key is a lockout procedure to prevent a coworker from starting the vehicle while someone is working on attachment.
- Never Attempt to mount the vehicle or attachment while unit is moving.
- Do not remove safety latches or chains on stowed equipment unless stowed equipment is being held in place by active hydraulic power or other secure method to prevent if from dropping.

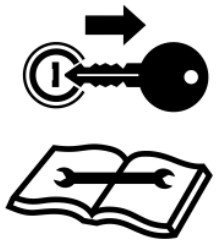
TO AVOID CHILDREN FALLING OFF OR BEING CRUSHED BY EQUIPMENT:

- **NEVER ALLOW** children to play on or around vehicle or equipment.

PN P-CH-01

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CONNECTING OR DISCONNECTING IMPLEMENT SAFETY

		
Foot Crushing Hazard	Hand Crushing Hazard	Stop Vehicle, Remove Key and Read Manual

DANGER **TO AVOID SERIOUS INJURY OR DEATH FROM BEING CRUSHED BY VEHICLE OR ATTACHEMENT:**

WHEN ATTACHING UNIT TO VEHICLE:

- **DO NOT ALLOW BYSTANDERS** between vehicle and plow.
- Keep hands and body clear of the attachment and the attachment mounts.

BEFORE connecting and disconnecting Plow Components:

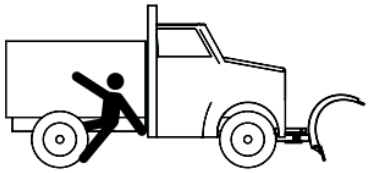
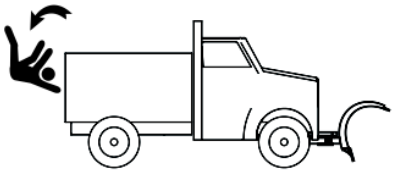
- **STOP VEHICLE ENGINE**, place transmission into park, engage parking brake, and remove key.

WHEN connecting and disconnecting Plow:

- DO NOT crawl or walk under the Plow when in storage position.
- Make sure Plow is properly attached to vehicle and the retaining pins, hardware, chains, and cables securely lock the Attachment into position.
- DO NOT attempt to disconnect trip edge by hand. Trip devices are spring loaded and sudden movement can occur resulting in serious injuries. ***PN P-CD-01***

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RUN OVER HAZARDS

		
Operator Run over hazard	Rider fall off Run over hazard	Rider fall off Run over hazard

DANGER **TO AVOID SERIOUS INJURY OR DEATH FROM FALLING OFF VEHICLE OR EQUIPMENT RUN OVER:**

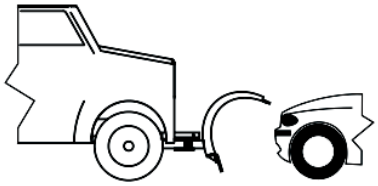
- **ONLY** start vehicle while seated in vehicle seat.
- **ALWAYS BUCKLE UP** seat belt when operating vehicle and equipment.
- **ONLY OPERATE** vehicle and equipment while seated in vehicle seat.
- **NEVER ALLOW RIDERS** on vehicle or implement.
- Ensure area is clear around vehicle and equipment before starting or operating equipment.

WHEN MOUNTING AND DISMOUNTING VEHICLE:

- **ONLY mount or dismount when vehicle and moving parts are stopped.**
- **STOP ENGINE, engage parking brake, lower implement, allow all moving parts to stop and remove key before dismounting from vehicle.** ***PN P-RO-01***

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THROWN OBJECTS HAZARDS

		
Plow Thrown Objects Hazard	Inspect Area Remove foreign objects	Do Not let Plow contact solid objects

DANGER **PLOW IS CAPABLE OF PROPELLING OBJECTS UP TO 75 FEET.**

TO AVOID SERIOUS INJURY TO OPERATOR OR PASSERSBY FROM THROWN OBJECTS:

- KEEP bystanders 100 feet away
- Stop plowing if bystanders are within the potential thrown area.

STOP PLOWING IF PASSERSBY ARE WITHIN 100 FEET:

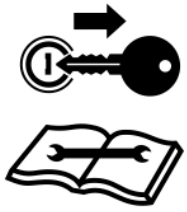
- Make sure no bystander, animal or obstruction such as vehicle, building or street sign are within the width of plow.
- Avoid hitting solid, or oversized objects. Objects could become airborne and cause personal injury or damage to equipment.
- Remove or mark any foreign objects that could be propelled or cause damage to plow.

PLOW OPERATION:

- DO NOT exceed Plow's rated plowing speed.
- Ensure plow is equipped with warning signals to alert motorist and pedestrians.
- Always turn on all safety lights and flashers when operating plow. ***PN P-TO-01***

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BLADE CONTACT HAZARDS

		
Do not put fingers underneath Plow blade	Do not put foot underneath Plow blade	Stop Tractor Remove Key Read Manual

⚠ DANGER **KEEP AWAY FROM BLADE TO AVOID SERIOUS INJURY OR DEATH FROM BLADE CONTACT:**

- **STAY AWAY** and **KEEP HANDS, FEET** and **BODY AWAY** from plow blade and parts until engine has come to a complete stop.
- **DO NOT** put hands or feet under plow blade.
- **STOP,** disengage power and ensure plow is resting and supported on blocks before adjusting plow blade.
- **STOP, LOOK,** and **LISTEN** before approaching the plow to make sure engine has stopped. ***PN P-BC-01***

HIGH PRESSURE OIL LEAK HAZARD

		
High pressure oil penetrating skin	High pressure oil eroding skin	Using cardboard to check for oil leaks

⚠ DANGER **TO AVOID SERIOUS INJURY OR DEATH FROM HIGH PRESSURE HYDRAULIC OIL LEAKS PENERATING SKIN:**

- **DO NOT OPERATE** equipment with oil or fuel leaks.
- **KEEP** all hydraulic hoses, lines and connections in **GOOD CONDITION** and **TIGHT** before applying system pressure.
- **RELIEVE HYDRAULIC PRESSURE** before disconnecting lines or working on the system.
- **REMOVE** and replace hose if you suspect it leaks. Have dealer test it for leaks.

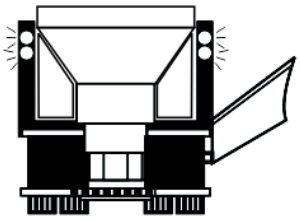
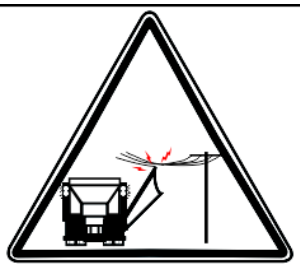
HIGH PRESSURE FLUID LEAKS CAN BE INVISIBLE.

WHEN CHECKING FOR HYDRAULIC LEAKS AND WORKING AROUND HYDRAULIC SYSTEMS:

- **ALWAYS WEAR** safety glasses and impenetrable gloves.
- **USE** paper or cardboard to search for leaks.
- **DO NOT USE** hands or body parts to search for leak.
- **KEEP** hands and body **AWAY** from pin holes and nozzles ejecting hydraulic fluid.
- Injected Hydraulic fluid may cause gangrene if not surgically removed immediately by a doctor familiar with this form of injury. ***PN HP01***

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TRANSPORTING HAZARDS

			
Use reflectors and Flashing Lights	Loss of Control Speeding and Stopping Hazard	Engage Transport Pins on Plow	Plow contacting overhead electrical lines

⚠WARNING **TO AVOID SERIOUS INJURY AND DEATH WHEN OPERATING OR TRANSPORTING EQUIPMENT:**

- **KEEP** transport speed to the posted speed limit to maintain control of equipment.
- **REDUCE SPEED** on inclines, on turns and in poor plowing conditions.
- **DO NOT TOW** with trucks or other vehicles use a flatbed vehicle to transport.
- **FOLLOW** all local traffic regulations.

BEFORE TRANSPORTING OR TOWING IMPLEMENT:

- Ensure equipment has been stowed in transport position and secured with safety latches or chains.

VEHICLE INSPECTION:

- **CHECK** steering and braking for proper operation and in good condition.
- **CHECK** that transport pins are engaged.
- **CHECK** reflectors and warning lights for proper operation and visibility behind unit.
- **ROUTINELY** inspect the equipment's headlights, brake lights, backup lights, and turn signal lights for operational condition.
- Always turn on all safety lights and flashers when you operate the implement.
- **CHECK** that your driving vision is not impaired by cab while seated in vehicle seat.
- **ADJUST** your operating position, mirrors, and implement transport for clear vision for traveling and traffic conditions.

DETERMINE STOPPING CHARACTERISTICS OF VEHICLE AND IMPLEMENT FOR TRANSPORTING OR OPERATING:

- With added weight and severe weather conditions stopping distances may increase.
- Only operate at speeds that you can properly control equipment.

DETERMINE MAXIMUM TURNING SPEED BEFORE OPERATING ON ROADS OR UNEVEN GROUND:

- **TEST** equipment in slowly increasing speed on turns to determine it can be operated at higher speeds.
- **USE REDUCED** turning speeds on sharp turns to avoid equipment turning over.
- Center of gravity may have shifted with equipment installation.

WHEN OPERATING OR TRANSPORTING EQUIPMENT:

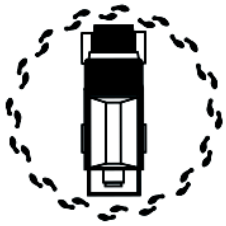
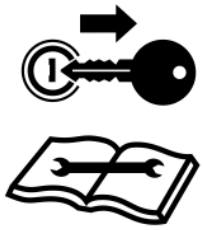
- Always **WEAR SEAT BELT** when operating or transporting spreader.
- **USE** low speeds to avoid overturn while operating or transporting.
- **USE** low speeds and gradual steering on curves, hills, rough or uneven surfaces and on wet roads.
- Use extreme caution when operating the equipment in traffic.
- Use all equipped warning signals to alert motorist and pedestrians of the presence of the equipment
- DO NOT leave piled material on roadway. Material can be a hazard to other motorist.

TO AVOID SERIOUS INJURY OR DEATH FROM ELECTRICAL CONTACT WHEN WORKING AROUND ELECTRICAL POWER LINES AND UTILITY LINES:

- **INSPECT** area for overhead power lines, obstructions, cables and utility lines, municipal, or other type structure.
- **KEEP** Plow 10 feet or greater distance from all power lines and overhead obstructions.
- **DO NOT** allow Plow to contact with any utility, municipal, or type of structures and obstructions. ***P-TH-01***

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HAZARDS WITH MAINTENANCE OF IMPLEMENT

		
Periodically inspect all moving parts and tighten all fasteners	Stop engine and remove key before conducting maintenance	Secure body with blocks before doing any maintenance

⚠WARNING **AVOID SERIOUS INJURY OR DEATH FROM COMPONENT FAILURE BY KEEPING IMPLEMENT IN GOOD OPERATING CONDITION BY PERFORMING PROPER SERVICE, REPAIRS, AND MAINTENANCE.**

BEFORE PERFORMING SERVICE, REPAIRS, AND MAINTENANCE ON THE IMPLEMENT:

SECURE EQUIPMENT FOR SERVICE

BLOCK OUT POTENTIAL ENERGY HAZARDS; Rotating Parts, Raised Components, Hydraulic Pressure.

- **STOP ENGINE**, engage parking brake, and allow all moving parts to stop and remove key before dismounting from vehicle seat.
- Securely block up raised equipment. Use large blocks on soft or wet soil.
- **PUSH** and **PULL** Remote Hydraulic Cylinder lever to relieve hydraulic pressure.
- **DISCONNECT IMPLEMENT** Hydraulic **HOSES** from vehicle.

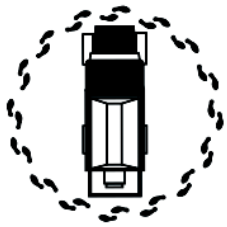
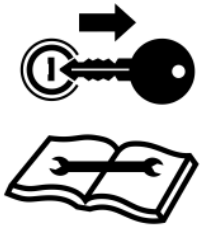
WEAR SAFETY GLASSES, PROTECTIVE GLOVES and follow SAFETY PROCEDURES when performing service, repairs, and maintenance on the implement:

- Always **WEAR** protective **GLOVES** when handling chemicals or worn component with sharp edges.
- Always **WEAR GLOVES** and **SAFETY GLASSES** when servicing components.
- **AVOID CONTACT** with hot hydraulic oil or chemicals.
- **SECURELY** support or **BLOCK UP** raised implement, framework, and lifted components before working underneath equipment.
- **STOP** any implement movements and **SHUT-OFF VEHICLE** engine before doing any work procedures.
- **USE** step ladder or raised stands to reach high equipment areas inaccessible from ground.
- **ENSURE** good footing by standing on solid flat surfaces when getting on implement to perform work.
- **FOLLOW** manufacturer's instructions in handling oils, solvents, cleansers, and other chemical agents.
- **DO NOT** change any factory-set hydraulic calibrations to avoid component or equipment failures.
- **DO NOT** modify or alter implement, functions or components.
- **DO NOT WELD** or straighten broken, cracked or broken blade

PN P-HM-01

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HAZARDS WITH MAINTENANCE OF IMPLEMENT CONTINUED

		
Periodically inspect all moving parts and tighten all fasteners	Stop engine and remove key before conducting maintenance	Secure body with blocks before doing any maintenance

⚠WARNING **AVOID SERIOUS INJURY OR DEATH FROM COMPONENT FAILURE BY KEEPING IMPLEMENT IN GOOD OPERATING CONDITION BY PERFORMING PROPER SERVICE, REPAIRS AND MAINTENANCE.**

PERFORM SERVICE, REPAIRS, LUBRICATION AND MAINTENANCE OUTLINED IN IMPLEMENT MAINTENANCE SECTION:

- **INSPECT** before each use for loose fasteners, worn or broken parts, leaky or loose fittings, missing or broken cotter keys and washers on pins, and all moving parts for wear.
- **REPLACE** Blade or any worn or broken parts with authorized service parts.
- **LUBRICATE** unit as specified by lubrication schedule.
- Ensure all fluid levels are properly filled.
- **NEVER** lubricate, adjust or remove material while it is running or in motion.
- **TORQUE** all bolts and nuts as specified.
- Check tire conditions.
- Never remove debris or unclog jams from spring pressurized pinch points by hand.
- Avoid contact with recently used equipment that may still be hot.
- Ensure the scheduled maintenance is up to date.
- Do Not modify or alter equipment/plow.
- Do Not leave snow plow unattended while snow plow wing is in an unsecured raised position.
- Do Not crawl or walk under unsecured raised equipment.

SAFETY SHIELDS, GUARDS AND SAFETY DEVICES INSPECTION:

- **KEEP** all Steel Guards, Bands, and Skid Shoes in place and in good condition.
- Maintain Safety Signs and Decals in good readable condition.
- **REPLACE** any missing, broken or worn safety shields, guards and safety devices.
- Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.
- Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. ***PN P-HM-02***

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PARTS INFORMATION

HENKE Snow Plows use balanced and matched system components for plows, hitches, and other components. These parts are made and tested to HENKE specifications. Non-genuine or “will fit" parts do not consistently meet these specifications. The use of non-genuine or “will fit” parts may reduce Snow Plow performance, void HENKE warranties, and present a safety hazard. Use genuine HENKE parts for economy and safety. (SNPG-6)

SEE YOUR HENKE DEALER

Operator’s & Parts Manuals

www.algqr.com/hpm

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PLP-PLOW

Kit Revision Notes:

DECALS

PLP-PLOW

Use the following decals from sheet 7332006.

Henke Part No.	Qty.	Description
7331003	1	Use genuine Henke replacement parts
7331004	1	Secure body with blocks
7331005	1	Stop Engine Stay clear of moving parts
7331007	1	Read and understand operator's manual If you cannot read English get assistance
7331012	1	Raise plow before backing

(NOTE: Some decals on sheet 7332006 are not needed on this product. Discard decals not needed.)

Other Attachments and Decals

7330014	1	Henke Logo Decal
7331034	1	Warning: Down Pressure can cause loss of steering.
7331006	3	Do not use hands to check for oil leaks High Pressure oil leak-injection
7331010	4-6	Keep Clear, Pinch Point (Torsion Springs get 6)
7330012	1	Serial Number Tag
7330023	4	Tack - Serial Tag
7300047	1	Product Manual Canister
7300048	1	Plug for Product Manual Canister
7020391	3	Stud, 1/2-20 X 5/8 Non- Flange
7040002	3	Flat Washer, 1/4 USS
7030044	3	Nylock Nut, 1/4-20

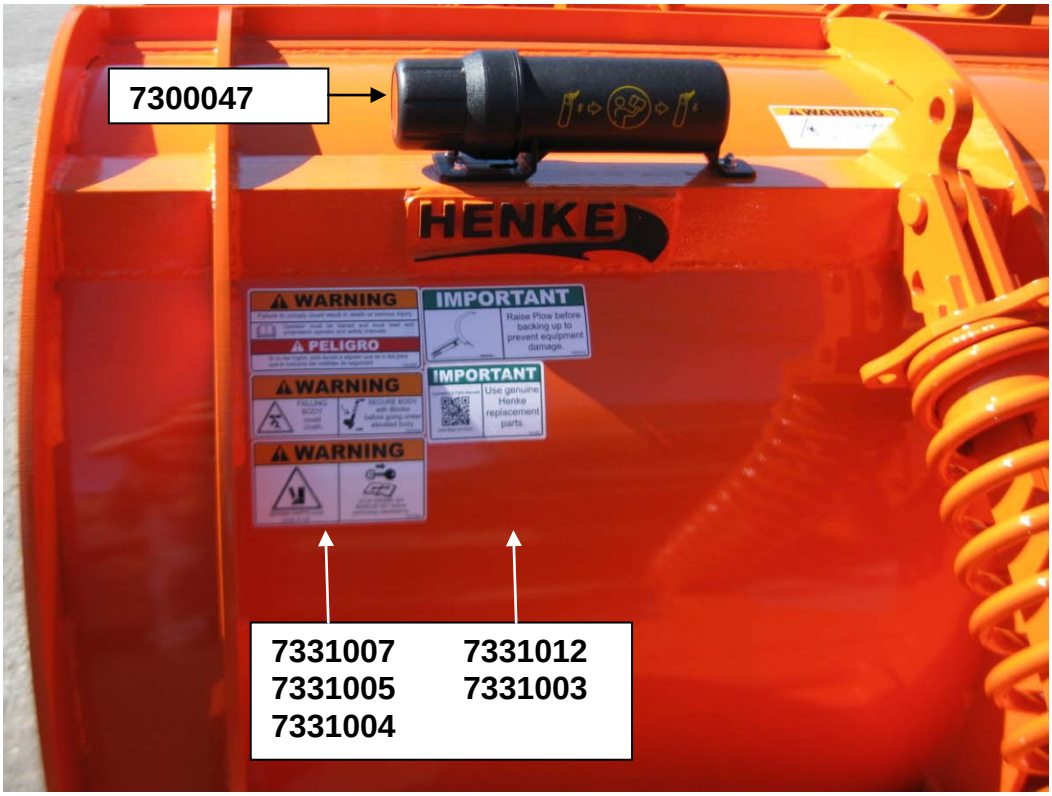
Instructions:

Follow these instructions to position the above items to your Henke product for safety and professional appearance. Apply on clean surfaces only. They should be properly applied and kept in good condition. If a decal is worn out, torn, or otherwise defaced, call us for an immediate replacement at 1-913-682-9000, or 1-888-682-9010.

DECALS

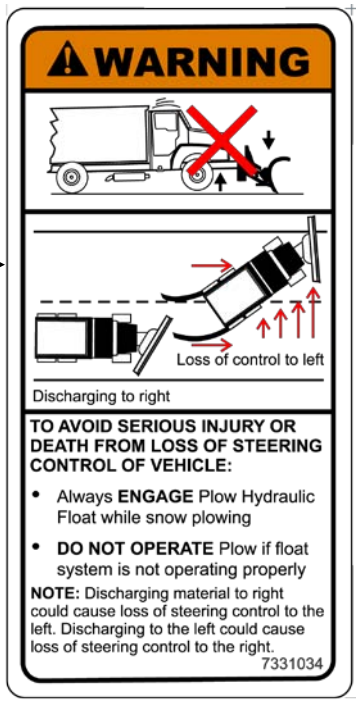
1. Position 7331007, 7331005, and 7331004 to the LEFT of 7331011, 7331012, and 7331003 of the Moldboard as shown.

2. Position 7330012 Serial Plate and 7300047 Manual Canister as shown.

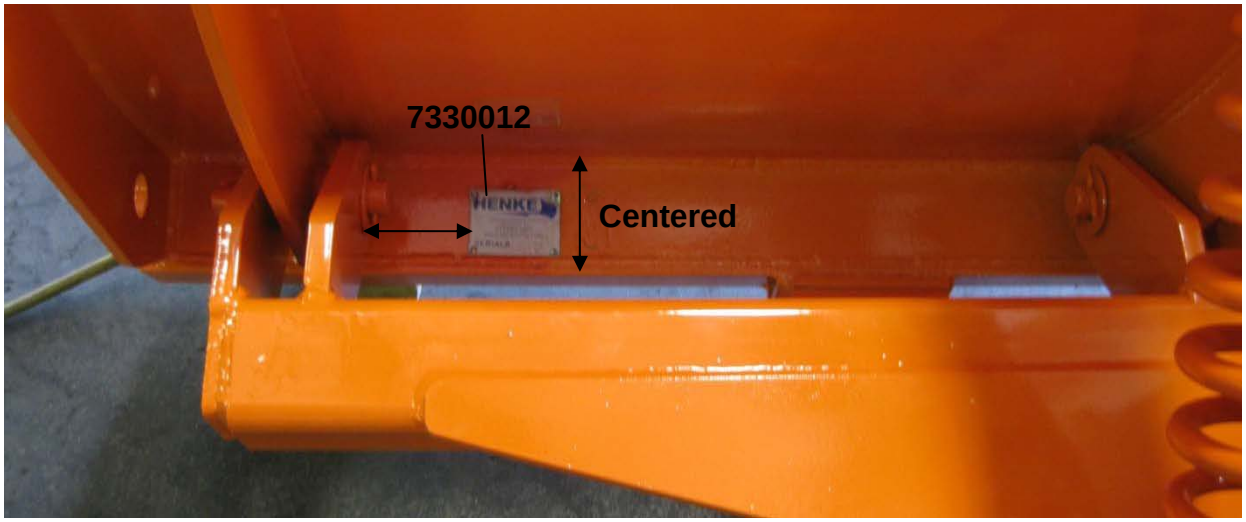


3. Position 7331034 centered on the upper Arm as shown. Bottom of decal toward driver's side of plow.





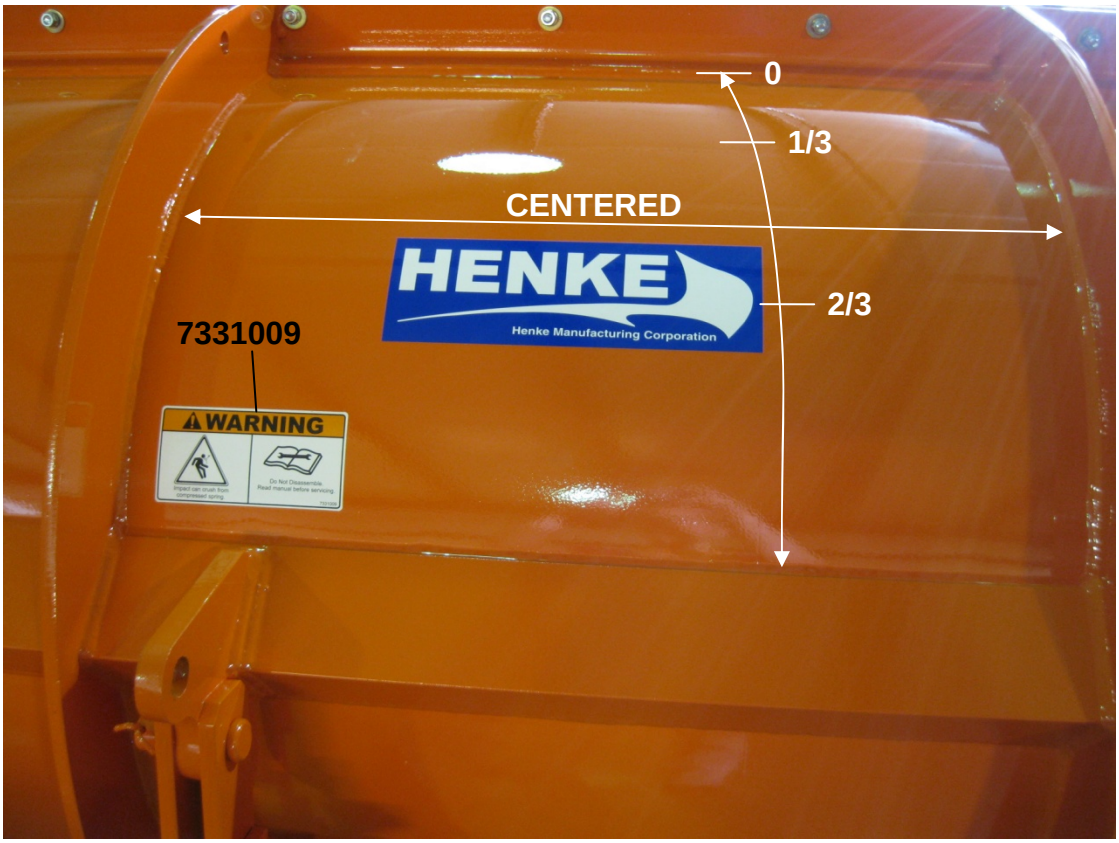
4. Position 7331010 (Qty. 2) as shown.



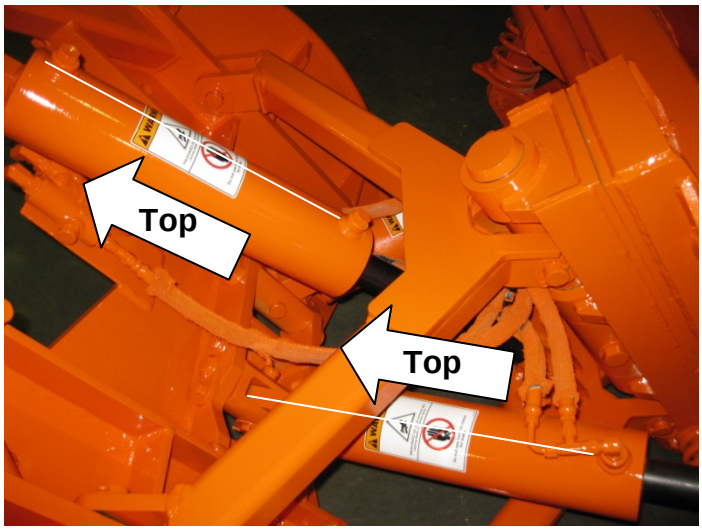
5. Position 7331009 (Qty. 2) as shown.



6. Position 7330014, Henke Logo in.



7. Position 7331006 decals (Qty. 3) on each hydraulic cylinder as shown.



In line with top of cylinder & Visible. Preferably on Port side of cylinder.

DECALS

7. Position 7331010 decals (Qty. 2 Total) on Frame Above Bump Rollers (Qty. 2)
8. Position 7331010 decals (Qty. 2 Total) on Side Flare of Flat Plate Hitch (Qty. 2) if it doesn't have a blow through hole, or on Hitch Backplate as shown, if Flare does have a blow throuhg hole (two location options).



OR





DECALS

8. Position 7331010 (Qty. 2) On bottom angle, rear of outboard two springs (In the case of Torsion Springs.



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CHAPTER 2: PARTS AND ASSEMBLIES

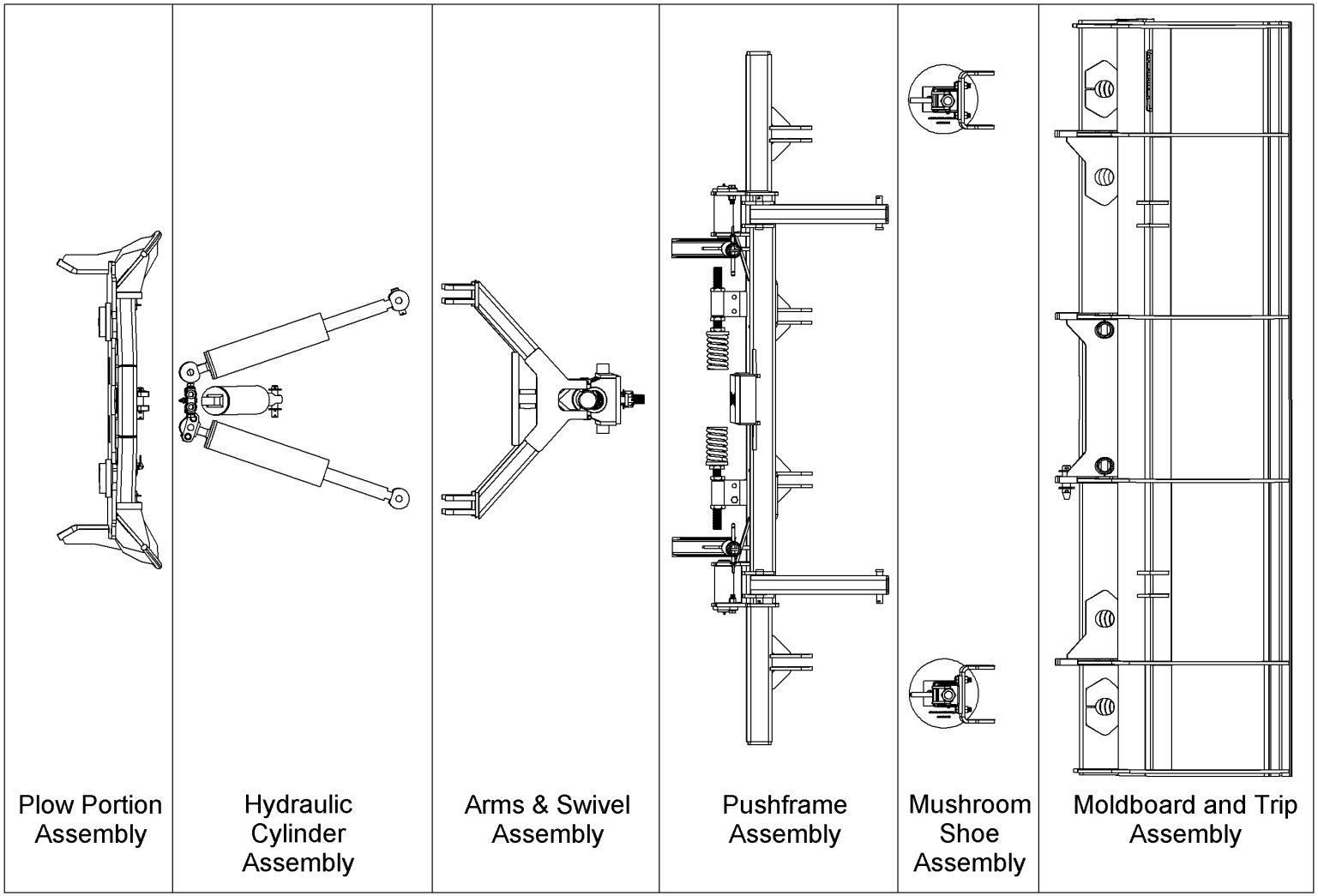
PLEASE READ ENTIRE BOOK BEFORE INSTALLATION, IMPLEMENTATION, OR MAINTENANCE.

LargeAssemblyView - Parallel Lift, Compression Trip Edge Plow **34**
Plow Portion Hitch Assembly, PLP **35**
Hydraulic Assembly **36**
Arm Assembly **37**
swivel Assembly, PLP **38**
Pushframe Assembly **39**
Moldboard Assembly **40**

LargeAssemblyView - Parallel Lift, Compression Trip Edge Plow

Individual parts views of these large assemblies can be found on the following pages.

Figure 2-1: Large Assembly Breakdown



Plow Portion Hitch Assembly, PLP

Figure 2-2: Plow Portion Hitch Assembly, PLP

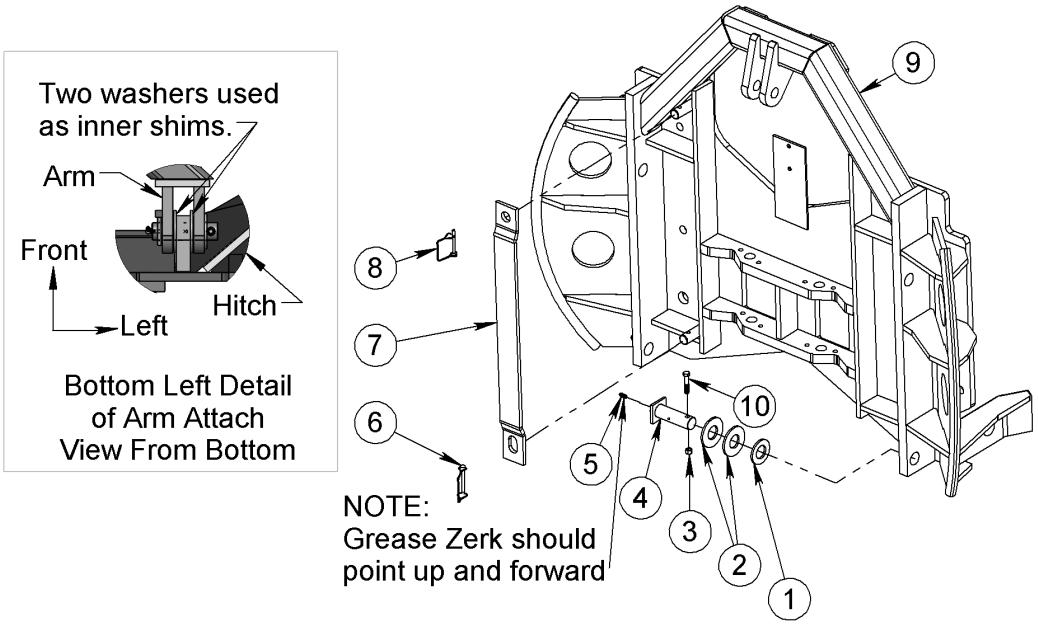


Table 2-1: Plow Portion Hitch Assembly, PLP, Parts List

Item No.	Qty.	Part No.	Description
1	4	7040014	Flat Washer, 1 1/4 Hardened, SAE
2	8	7040054	Flat Washer, 1 1/4 Hardened, USS
3	4	7030006	Nylock Nut, 3/8-16
4	4	149-0648	Pin Assembly, 1.25 x 4.69 x 3.36 GRIP
5	4	7090113	Grease Fitting, 90° 1/4-28 (Included with 149-0648) NOTE: Grease zerk should point up toward moldboard.
6 & 8	2	7050096	Safety Snap Pin, 1/4 x 2.25
7	1	4700-0054	Anti-Drift Bar
9	1	479-0011	Flat Plate Hitch, Plow Portion
10	4	7020378	Hex Capscrew, 3/8-16 x 2 GR.8

Hydraulic Assembly

Figure 2-3: Hydraulic Assembly

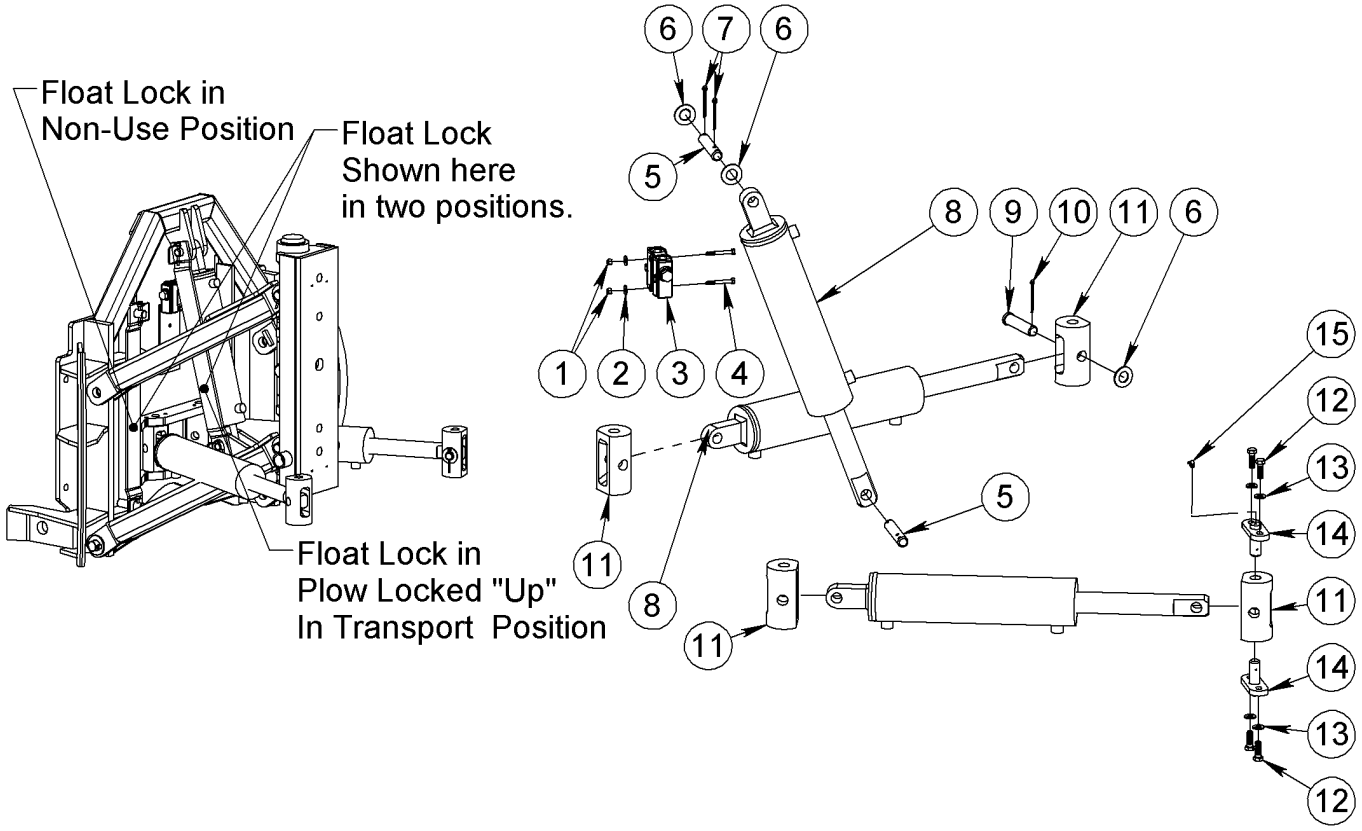


Table 2-2: Hydraulic Assembly, Parts List

Item No.	Qty.	Part No.	Description
1	2	7030086	Nylock Nut, 5/16-18
2	2	7040003	Flat Washer, 5/16 USS
3	1	7080424	Hydraulic Cushion Valve, 1000 PSI
4	2	7020371	Hex Capscrew, 5/16-18 x 2.5 GR.5
5	2	4700-0058	Pin, 1 x 5.06
6	8	7040013	Flat Washer, 1" Hardened, SAE
7	4	7050099	Cotter Pin, 1/4 x 2.5
8	3	7080655	Hydraulic Cylinder
9	4	7050098	Clevis Pin, 1 x .04
10	4	7050043	Cotter Pin, 3/16 x 2.5
11	4	7130035	Knuckle, PLP
12	16	7020130	Hex Capscrew, 1/2 Hardened, SAE
13	16	7040042	Flat Washer, 1/2 Hardened, SAE
14	8	479-0007	Headed Pin
15	8	7090113	Grease Fitting, 90° 1/4-28 (Included with Pin 479-0007)

Arm Assembly

Figure 2-4: Arm Assembly

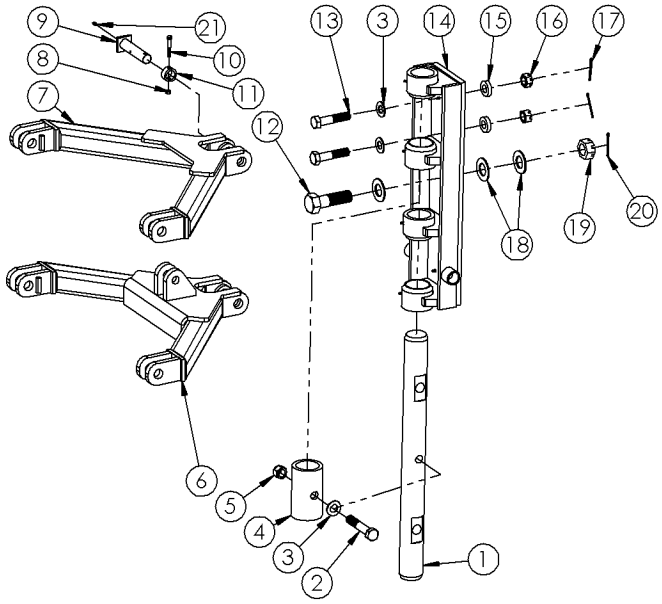


Table 2-3: Arm Assembly, Parts List

Item No.	Qty.	Part No.	Description
1	1	4700-0060	Pin, 3 x 33.75
2	1	7020302	Hex Capscrew, 1-8 x 5.5 GR.8
3	5	7040013	Flat Washer, 1" Hardened, SAE
4	1	4700-0061	Bushing 3.03 x 4 x 6.88
5	1	7030070	Nylock Nut, 1-8
6	1	479-0003	Arm Assembly, Lower
7	1	479-0002	Arm Assembly, Upper
8	2	7030006	Nylock Nut, 3/8-16
9	2	149-0671	Pin Assembly, 1.25 x 6.44 x 5.13 GRIP
10	2	7020037	Hex Capscrew, 3/8-16 x 2.5 GR.5
11	2	1400-1368	Pin Collar
12	1	4700-0059	Bolt, 1 1/2-6 x 5 Drilled
13	4	4700-0056	Bolt, 1-8 x 4.5, Drilled
14	1	479-0004	Swivel Plate Assembly
15	4	3900-0209	Boss, 2 x 1.03 x .50
16	4	7030018	Slotted Nut, 1-8
17	4	7050043	Cotter Pin, 3/16 x 2.5
18	3	7040024	Flat Washer, 1 1/2 Hardened, SAE
19	1	7030024	Slotted Nut, 1 1/2-6
20	1	7050099	Cotter Pin, 1/4 x 2.5
21	2	7090111	Grease Fitting, Straight 1/4-28

Swivel Assembly, PLP

Figure 2-5: Swivel Assembly, PLP

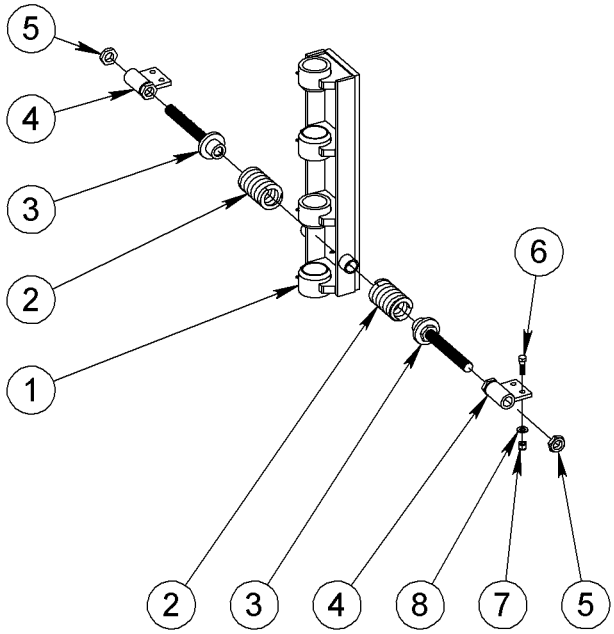


Table 2-4: Swivel Assembly, PLP, Parts List

Item No.	Qty.	Part No.	Description
1	1	Reference	Swivel Assembly (See Arm and Swivel Assembly)
2	2	7070072	Spring
3	2	479-0009	Spring Adjusting Screw Assembly
4	2	479-0006	Adjusting Screw Holder Assembly
5	2	3200-0331	Jam Nut, 1-1/4
6	4	7020060	Hex Capscrew, 5/8-11 x 2 GR.8
7	4	7030095	Nylock Nut, 5/8-11 GR.8
8	4	7040006	Flat Washer, 5/8 Hardened, SAE

Pushframe Assembly

Figure 2-6: Pushframe Assembly

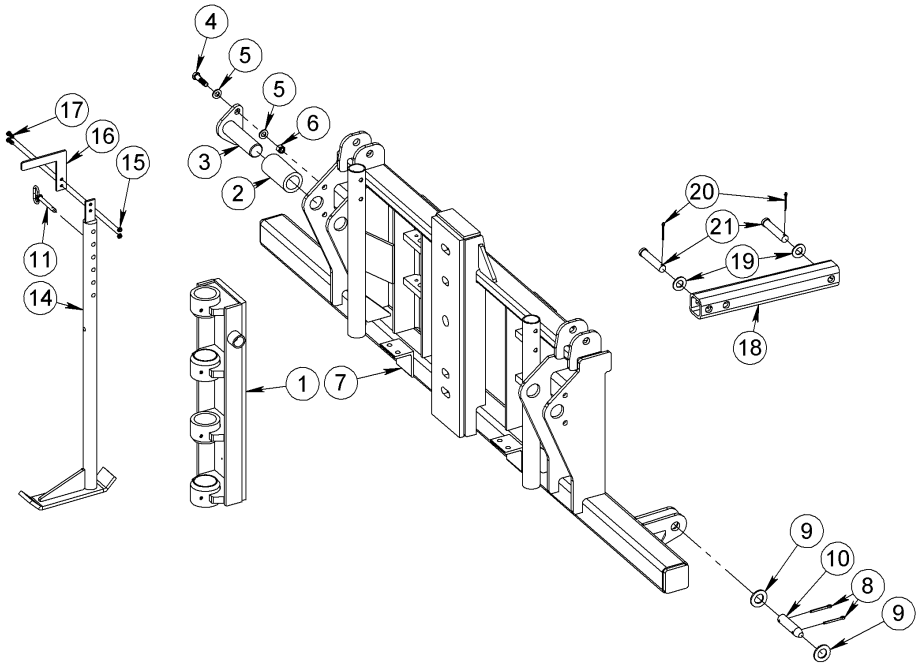


Table 2-5: Pushframe Assembly, Parts List

Item No.	Qty.	Part No.	Description
1	1	Reference	Swivel, PLP
2	2	4700-0092	3" Roller
3	2	479-0013	Pin Assembly for 3" Roller
4	4	7020288	Hex Capscrew, 5/8-11 x 2.5 GR. 8
5	4	7040006	Flat Washer, 5/8 Hardened, SAE
6	4	7030095	Nylock Nut, 5/8 Hardened, SAE
7	1	479-0035 479-0047	Pushframe, CTE, 4 Point, No RG Pushframe, CTE, 5 Point, With RG Brackets
8	8-16	7050099	Cotter Pin, 1/4 x 2.5
9	4-16	7040051	Flat Washer, 1-1/4, SAE
10	4-8	3700-0985	Pin, 1.25 x 6.06 x 4.11 GRIP
11	2	7050018	Hitch Pin, .5 x 3.5" Grip
14	2	479-0055*	Parking Stand, PLP
15	4	7030006*	Nylock Nut 3/8-16
16	2	4700-0216*	Stand Handle
17	4	7020029*	Hex Capscrew, 3/8-16 x 1 GR.5
18	2	4700-0186	Stabilizer Bar
19	4	7040013	Flat Washer, 1" Hardened, SAE
20	4	7050003	Cotter Pin, 3/16 x 2
21	4	7050101	Clevis Pin, 1 x 5

NOTE: Items marked with "*" may be purchased together as Parking Stand Assy. No. 479-0054M.

Moldboard Assembly

Figure 2-7: Moldboard Assembly

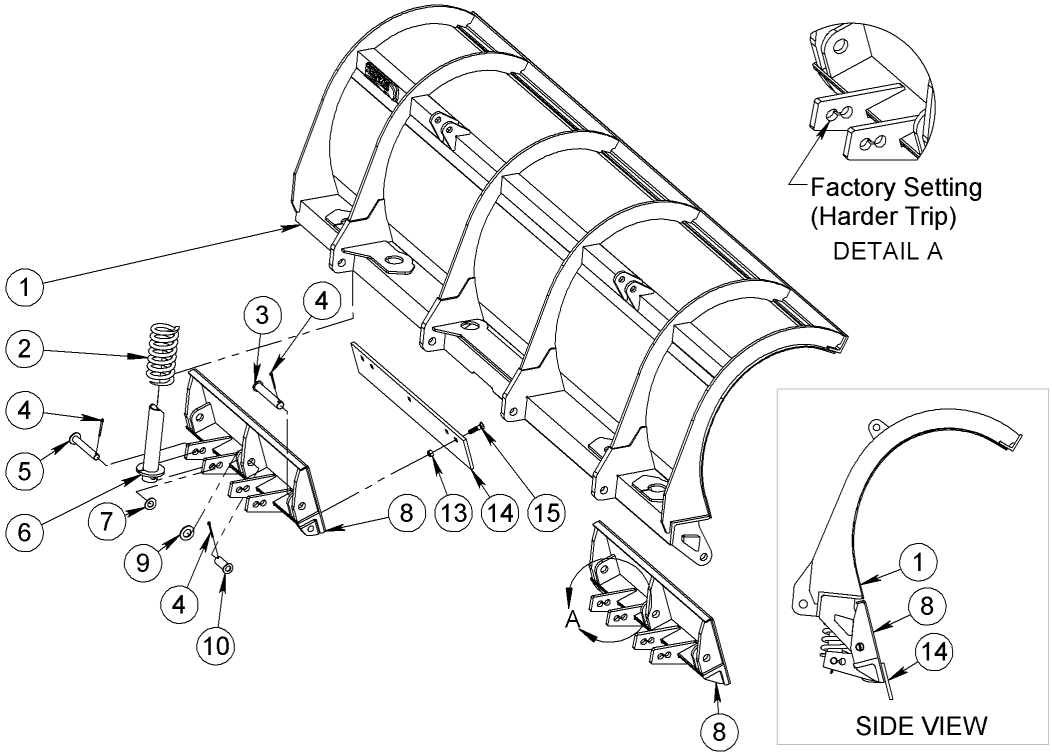


Table 2-6: Moldboard Assembly (CTE), Parts List

Item No.	Qty.	Part No.	Description
1	1	Call Henke	Moldboard Assembly
2	6	7070089	Spring
3	Varies	139-1656	Pin Assembly
4	Varies	7050099	Cotter Pin, 1/4 x 2.5
5	6	389-0057	Trip Spring Retaining Pin, Assembly.
6	6	389-0051	Spring Mount Tube Assembly
7	Varies	7040013	Flat Washer, 1" Hardened, SAE
8	1-3	Varies	Trip Section Assembly - CTE (See Separate Trip Assembly Views)
9	Varies	7040014	Flat Washer, 1 1/4 Hardened, SAE
10	Varies	139-1657	Pin Assembly
13	Varies	7030084	Toplock Nut, 5/8-11 GR.C
14	Varies	Varies	Cutting Edge (See Separate Cutting Edge Hardware Table)
15	Varies	Varies	Plow Bolt, 5/8-11 GR.8 (See Separate Cutting Edge Hardware Table)

CHAPTER 3: TRIP DEVICES

PLEASE READ ENTIRE BOOK BEFORE INSTALLATION, IMPLEMENTATION, OR MAINTENANCE.

Compression Trip Edge – Single Section **42**
Compression Trip Edge – Two Section **43**
Compression Trip Edge – Three Section **44**
Compression Trip Edge – Three to One Sections **45**

Compression Trip Edge – Single Section

Figure 3-1: Compression Trip Edge – Single Section, Parts View

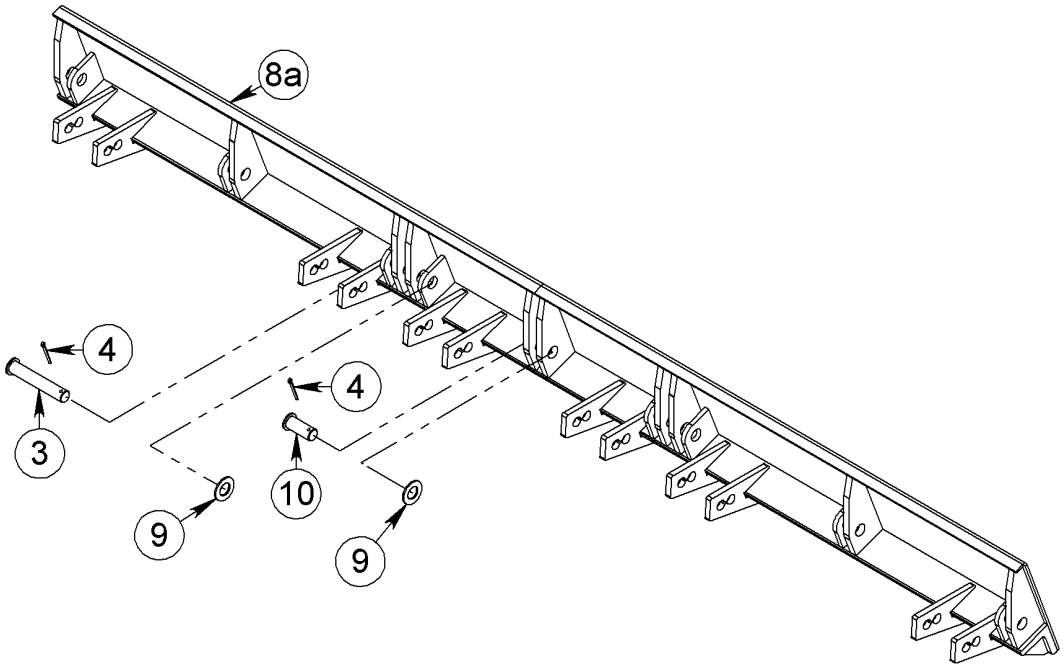


Table 3-1: Compression Trip Edge – Single Section, Parts List

Item No.	Qty.	Part No.	Description
4	7	705099	Cotter Pin, 1/4 x 2.5
3	2	139-1656	Pin Assembly
9	7	7040014	Flat Washer, 1-1/4 Hardened, SAE
8a	1	389-0127 389-0106 Call Henke	120" CTE 1 Trip Section, Left 132" CTE 1 Trip Section, Left 144" CTE 1 Trip Section, Left
10	5	139-1657	Pin Assembly

⚠WARNING THIS ASSEMBLY CONTAINS PRESTRESSED SPRINGS UNDER COMPRESSION. IMPROPER DISASSEMBLY MAY CAUSE SUDDEN RELEASE OF SPRING ENERGY, WHICH COULD RESULT IN SERIOUS INJURY.

Compression Trip Edge – Two Section

Figure 3-2: Compression Trip Edge – Two Section, Parts View

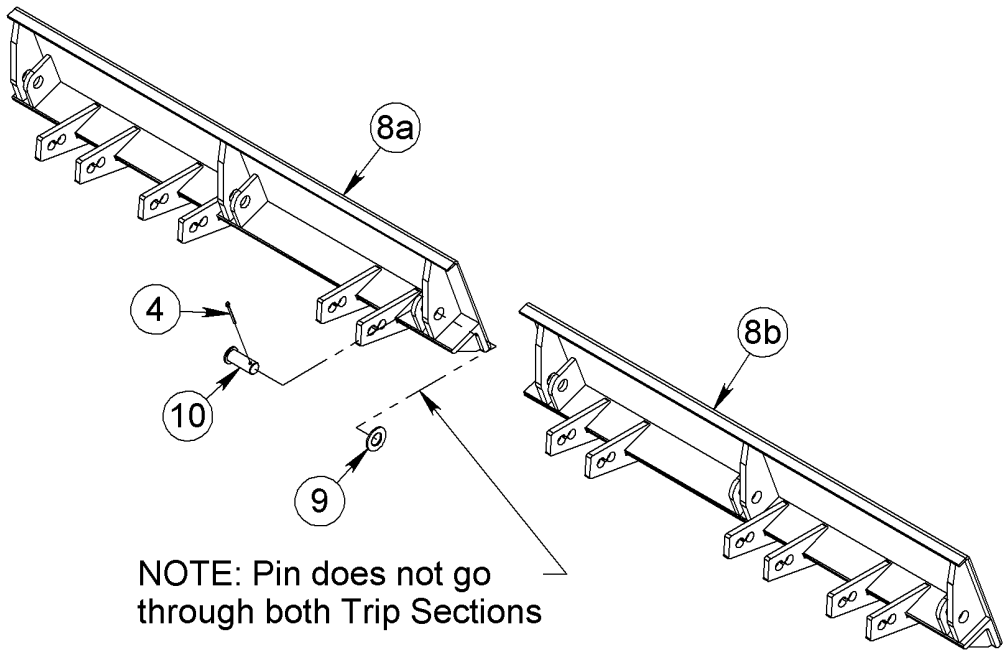


Table 3-2: Compression Trip Edge – Two Section, Parts List

Item No.	Qty.	Part No.	Description
4	6	7050099	Cotter Pin, 1/4 x 2.5
8a	1	389-0112 Call Henke Call Henke	60" CTE 2 Trip Section, Left (10' MB) CTE 2 Trip Section, Left (11' MB) 72" CTE 2 Trip Section, Left (12' MB)
8b	1	389-0111 Call Henke Call Henke	60" CTE 2 Trip Section, Right (10' MB) CTE 2 Trip Section, Right (11' MB) 72" CTE 2 Trip Section, Right (12' MB)
9	6	7040014	Flat Washer, 1-1/4 Hardened, SAE
10	6	139-1657	Pin Assembly, Short

⚠WARNING THIS ASSEMBLY CONTAINS PRESTRESSED SPRINGS UNDER COMPRESSION. IMPROPER DISASSEMBLY MAY CAUSE SUDDEN RELEASE OF SPRING ENERGY, WHICH COULD RESULT IN SERIOUS INJURY.

Compression Trip Edge – Three Section

Figure 3-3: Compression Trip Edge – Three Section, Parts View

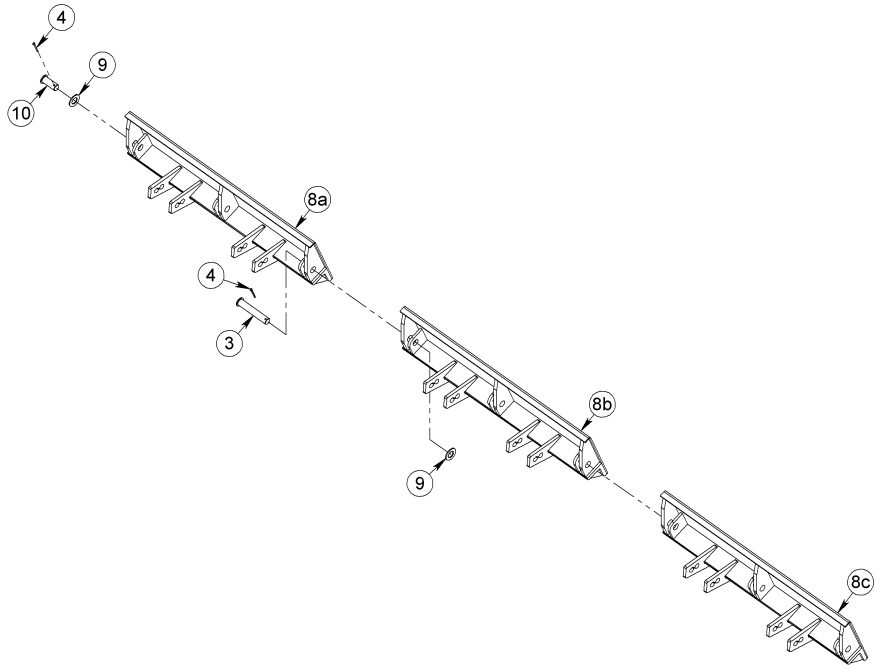


Table 3-3: Compression Trip Edge – Three Section, Parts List

Item No.	Qty.	Part No.	Description
8	Varies, See Combination Table Below	389-0050 389-0055 389-0095 389-0098	36" CTE Trip Section, Outboard 10' Plow 48" CTE Trip Section 36" CTE Trip Section, Center Only, 11' Plow 48" CTE Trip Section, Outboard, 11' Plow
4	7	7050099	Cotter Pin, 1/4 x 2.5
3	2	139-1656	Pin Assembly, Long
9	7	7040014	Flat Washer 1-1/4 Hardened, SAE
10	5	139-1657	Pin Assembly, Short

Table 3-4:CTE Three Section, Section Length Combinations

Moldboard Length	8a & 8c	8b
10'	389-0050	389-0055
11'	389-0098	389-0095
12'	389-0055	389-0055

WARNING THIS ASSEMBLY CONTAINS PRESTRESSED SPRINGS UNDER COMPRESSION. IMPROPER DISASSEMBLY MAY CAUSE SUDDEN RELEASE OF SPRING ENERGY, WHICH COULD RESULT IN SERIOUS INJURY.

Compression Trip Edge – Three To One Sections

Figure 3-4: Compression Trip Edge – Three To One Sections, Parts View

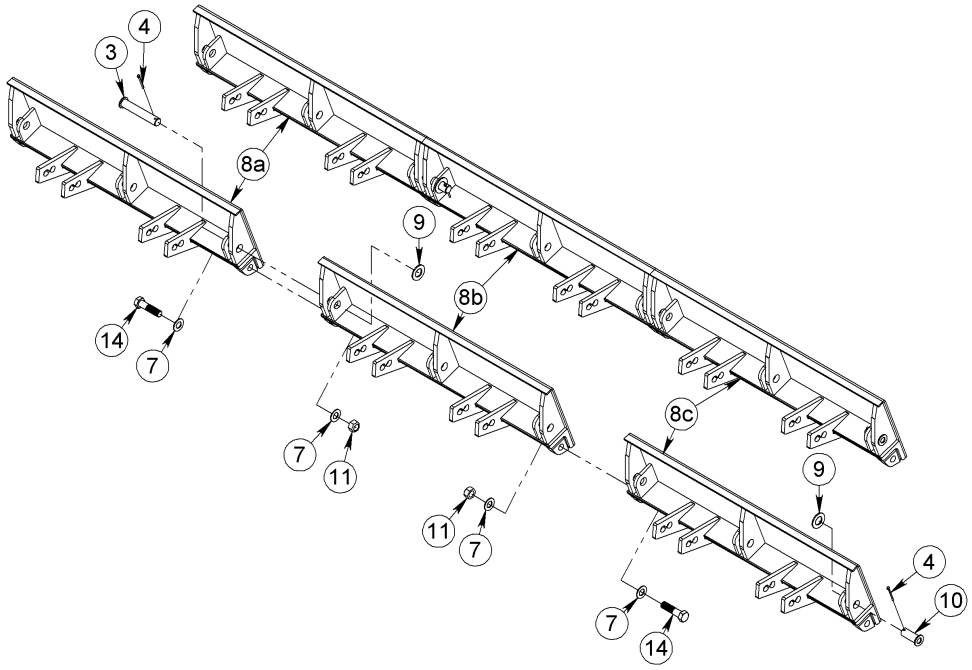


Table 3-5: Compression Trip Edge – Three To One Sections, Parts List

Item No.	Qty.	Part No.	Description
3	2	139-1656	Pin Assembly, Long
4	7	7050099	Cotter Pin, 1/4x2.5
7	4	7040013	Flat Washer, 1" Hardened, SAE
8	Varies, See Combination Table Below	Varies	Trip Angle Section
9	7	7040014	Flat Washer, 1-1/4 Hardened, SAE
10	5	139-1657	Pin Assembly, Short
11	2	7030049	Toplock Nut, 1-8 GR. C
14	2	7020090	Hex Capscrew, 1-8 x 4.0 GR.8

Table 3-6:CTE Three To One Section, Section Length Combinations

Moldboard Length	8a	8b	8c
10'	389-0080	389-0081	389-0082
11'	389-0166	389-0165	389-0167
12'	389-0081	389-0081	389-0081

⚠WARNING THIS ASSEMBLY CONTAINS PRESTRESSED SPRINGS UNDER COMPRESSION. IMPROPER DISASSEMBLY MAY CAUSE SUDDEN RELEASE OF SPRING ENERGY, WHICH COULD RESULT IN SERIOUS INJURY.

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CHAPTER 4: HYDRAULICS

PLEASE READ ENTIRE BOOK BEFORE INSTALLATION, IMPLEMENTATION, OR MAINTENANCE.

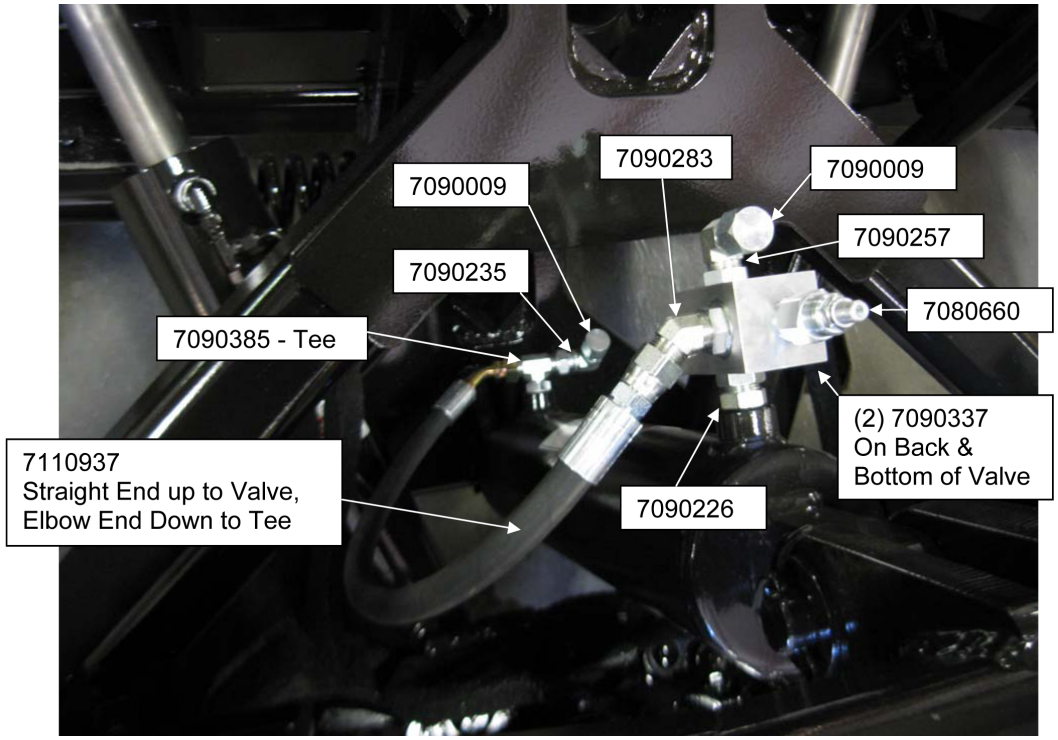
Hydraulic Hose Kit No. 7082120 48
Hydraulic Hose Kit No. 7082086 49

Hydraulic Hose Kit No. 7082120

Table 4-1: Hydraulic Hose Kit No. 7082120

Qty.	Part No.	Description
1	7110937	½" Hose 26"T -8 JIC F x -8 JIC F 45°
2	7090009	Cap -08 JIC
1	7090235	Elbow, 90, -08 JIC Male to -08 JIC Swivel Female
1	7090226	Straight Adapter, -08 ORB Male to -08 ORB Adj. Male
1	7090257	Elbow, 90, -08 JIC Male to -08 ORB Adj. Male
1	7090283	Elbow, 45, -08 JIC Male to -08 ORB Adj. Male
1	7090385	Tee, -08 JIC Male, -08 ORB Adj. Male Branch
2	7090337	Plug,-04 NPT
1	7080660	Pressure Reducing Valve (Not included in Kit #7082120)
***NOTE: The following are shipped loose, for your convenience.**		
2	7090228*	Straight Reducer, -08 JIC Female to -06 JIC Male

Figure 4-1: Hydraulic Hose Kit No. 7082120



Hydraulic Hose Kit No. 7082086

Table 4-2: Hydraulic Hose Kit No. 7082086

Qty.	Part No.	Description
2	7110875	Hose Assy. 3/8-2 X 27.5T, -6 JIC F x -6 JIC F, Full Length Nylon Sleeve
2	7110904	Hose Assy. 3/8-2 X 35T, -6 JIC F x -6 JIC F Elbow 90, Full Length Nylon Sleeve
4	7090388	Elbow, 90, -06 JIC Male to -08 ORB Adj. Male
2	7090267	Tee, -06 JIC Male, -06 JIC Swivel Female Run
2	7090627	Elbow, 45, -06 JIC Male to -06 JIC Swivel Female
2	7090399	Straight Adapter, -06 JIC Male to -10 ORB Male
2	7090502	Elbow, 90, -06 JIC Male to -10 ORB Adj. Male
6	7210016	Nylon Tie .30 X 8.0 Black
2	7090380	Cap, .-06 JIC

Figure 4-2: Hydraulic Hose Kit No. 7082086 (1 Of 3)



Figure 4-3: Hydraulic Hose Kit No. 7082086 (2 Of 3)

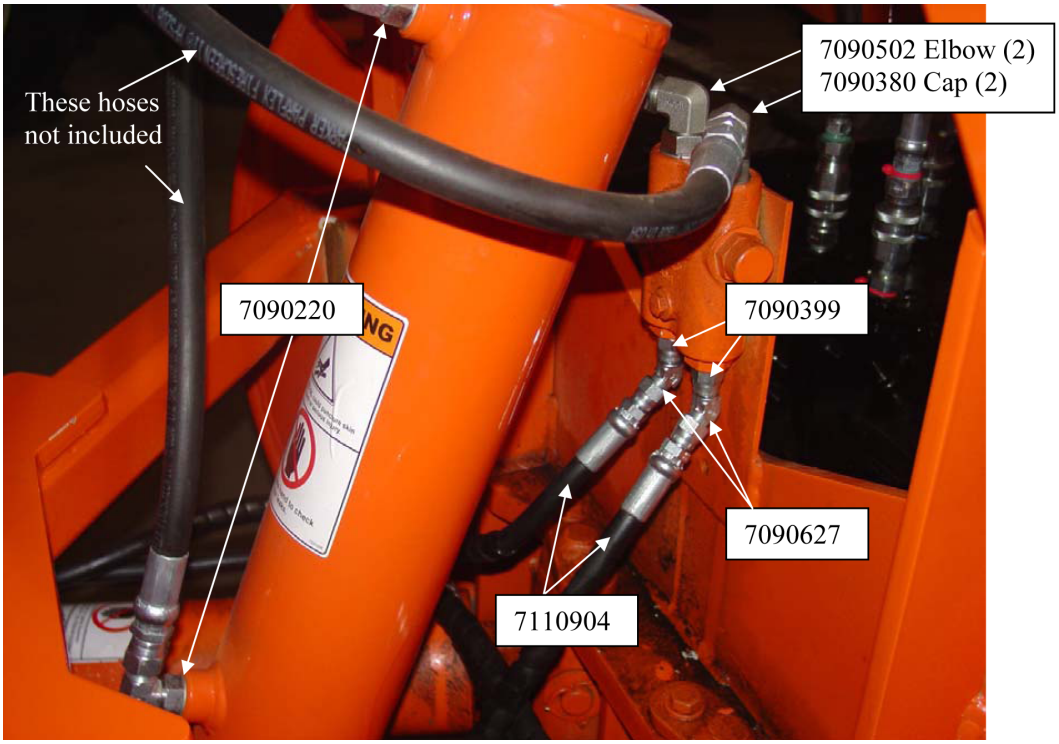
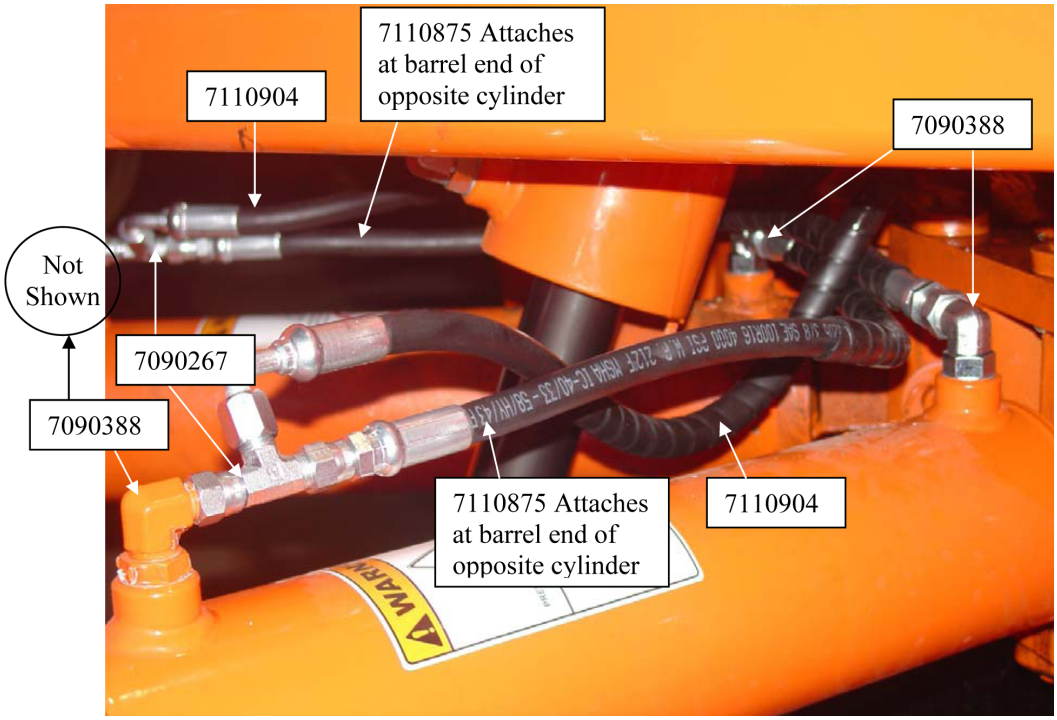


Figure 4-4: Hydraulic Hose Kit No. 7082086 (3 Of 3)



CHAPTER 5: RUNNING GEAR

PLEASE READ ENTIRE BOOK BEFORE INSTALLATION, IMPLEMENTATION, OR MAINTENANCE.

Spring Loaded Running Gear 52
8” Steel Wheel Assembly 54
Mushroom Shoe Assembly 55
Pneumatic Running Gear 56
Pneumatic Wheel Kit, 5-Lug Hub 57
Outer Tube & Yoke Assembly 58

Spring Loaded Running Gear

Figure 5-1: Spring Loaded Running Gear

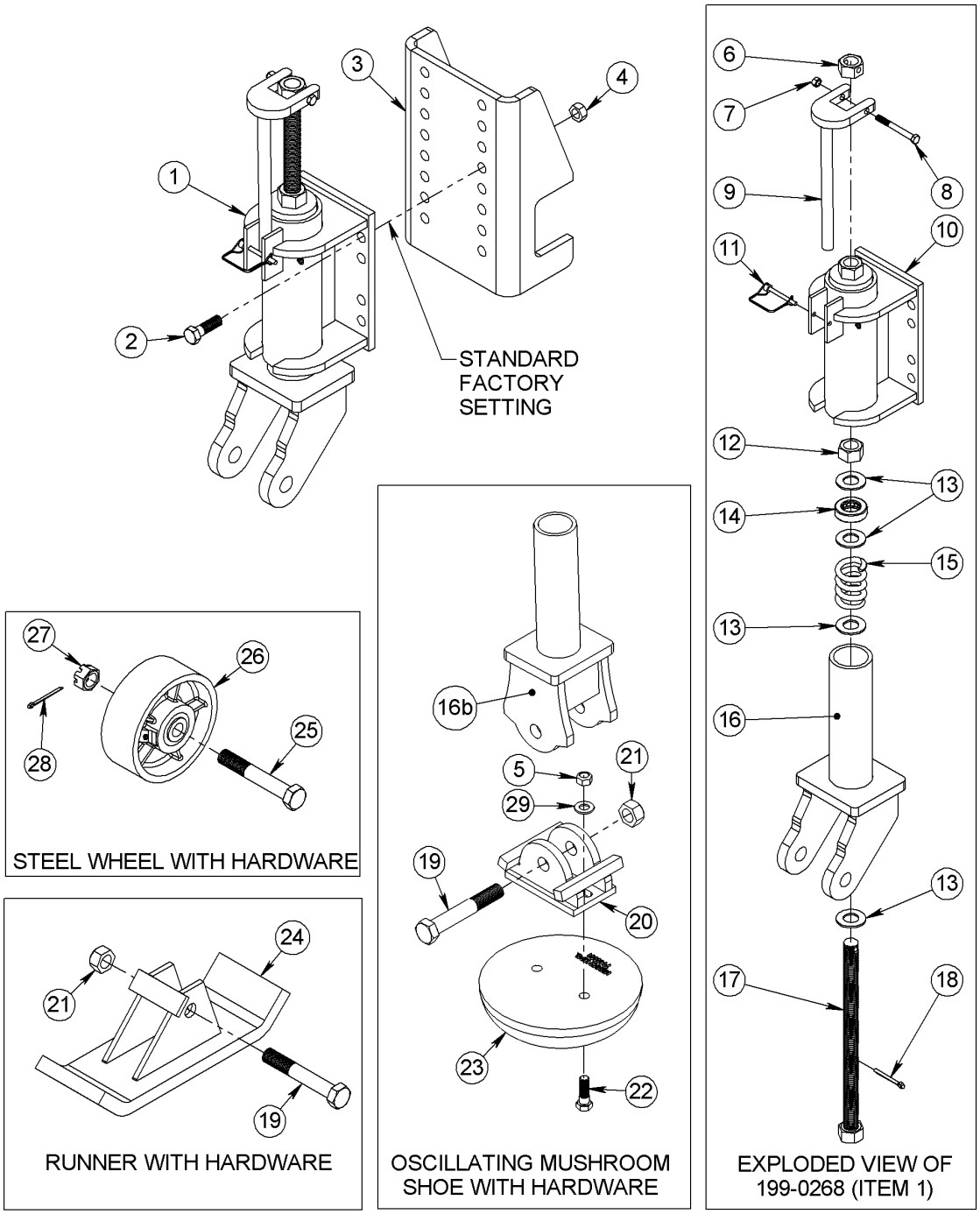


Table 5-1: Spring Loaded Running Gear, Parts List

Item No.	Qty.	Part No.	Description
1	1	199-0268P	Spring Loaded Running Gear w/o Mount
2	4	7020060	Hex Capscrew, 5/8-11 x 2 GR. 8
3	1	1900-0344	Mounting Assembly
4	2	7020067	Hex Capscrew, 5/8-11 x 6 GR. 5
5	6	7030084	Toplock Nut, 5/8-11 GR. C
6	1	1300-2377*	Crank Handle Nut (Comes with purchase of item **17**)
7	1	7030006*	Nylock Nut, 3/8-16
8	1	7020117*	Hex Capscrew, 3/8-16 x 3.5 GR. 5
9	1	139-1288P*	Crank Handle
10	1	199-0267P*	Outer Tube Assembly
11	1	7050096*	Safety Snap Pin, 1/4 x 2.25
12	1	7030016*	Nut, 1-8 GR. 8
13	4	7040013*	Flat Washer, 1", SAE Thru-Hard
14	1	7010050*	Bearing
15	1	7070013*	Spring
16	1	139-1290P*	Inner Tube Assembly
16B	1	199-0364	Inner Tube Assembly for Mushroom Shoe
17	1	139-1291*	Shaft Assembly (If purchased, comes with (1) Item **6**)
18	1	7050041*	Cotter Pin, 1/4 x 2
19	1	7020100	Hex Capscrew, 1-8 x 6.5 GR. 5
20	1	199-0365	Mushroom Shoe Adaptor
21	1	7030049	Toplock Nut, 1-8 GR. C
22	2	7020060 or 7020288	Hex Capscrew, 5/8-11 x 2 GR. 8 (7.5" MS) or Hex Capscrew, 5/8-11 x 2.5 GR. 8 (11" MS)
23	1	7140001P 199-0229P	11" Mushroom Shoe 11" Mushroom Shoe, Carbide
24	1	199-0411P 199-0281P	1 x 6 HiTop Runner 1 x 6 HiTop Runner w/ Carbide
25	1	1300-2373	Shoe Bolt
26	1	199-0221	Steel Wheel, 3 x 8, Complete
27	1	7030018	Slotted Nut, 1-8
28	1	7050043	Cotter Pin, 3/16 x 2.5
29	2	7040006	Flat Washer, 5/8" Hardened, SAE

NOTE:	1. Quantities given are for one running gear assembly. Two complete assemblies are required per plow. 2. Part Numbers marked with a * are included in part number 199-0268P (Item 1).

8” Steel Wheel Assembly

Figure 5-2: Henke 8” Steel Wheel Assembly

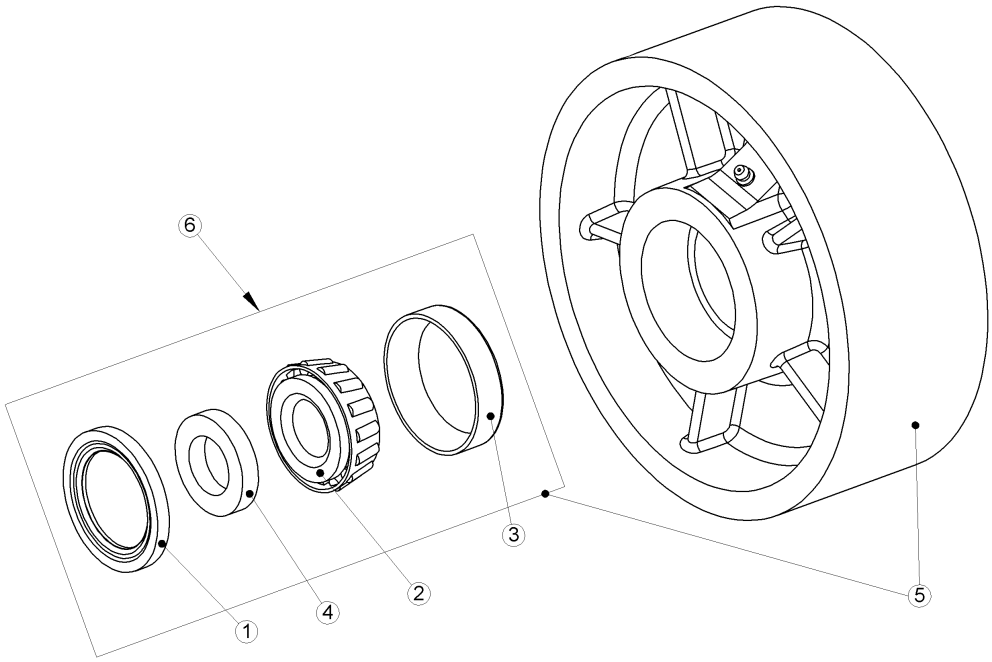


Table 5-2: Henke 8" Steel Wheel Assembly, Parts List

Item No.	Qty.	Part No.	Description
1	2	7140068	Grease Seal
2	2	7140081	Bearing Cone
3	2	7140080	Bearing Cup
4	2	7140082	Spacer
5	1	199-0221P	Steel Wheel Complete (Includes All Items Shown)
6	NA	199-0222P	Steel Wheel Bearing Kit (Includes (2) ea. of 1, 2, 3, & 4)

NOTE:	1. Entire assembly shown may be ordered as 199-0221P.

Mushroom Shoe Assembly

Figure 5-3: Mushroom Shoe Assembly

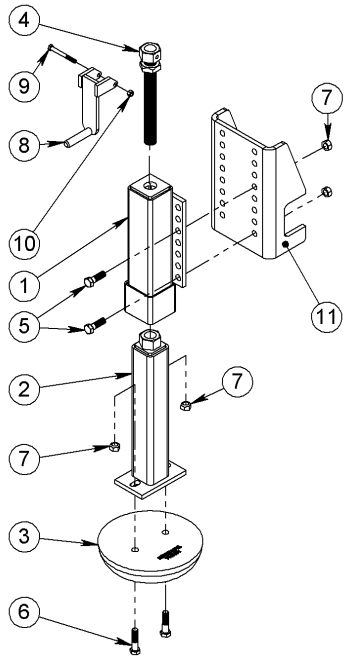


Table 5-3: Mushroom Shoe Assembly, Parts List

Item No.	Qty.	Part No.	Description
1	1	199-0376P	Outer Tube Assembly
2	1	199-0044P	Inner Tube Assembly
3	1	7140001P 199-0229P	11” Mushroom Shoe 11" Mushroom Shoe, Carbide
4	1	199-0041	Acme Screw Assembly
5	4	7020060	Hex Capscrew, 5/8-11 X 2 GR. 8
6	2	7020288	Hex Capscrew, 5/8-11 X 2.5 GR. 8
7	6	7030084	Toplock Nut, 5/8-11 GR. C
8	1	199-0019P	Crank Assembly
9	1	7020117	Hex Capscrew, 3/8-16 X 3.5 GR. 5
10	1	7030006	Nylock Nut, 3/8-16
11	1	1900-0344	Mounting Assembly

NOTE:	1. Quantities given are for one running gear assembly. Two complete assemblies are required per plow.

Pneumatic Running Gear

Figure 5-4: Pneumatic Running Gear

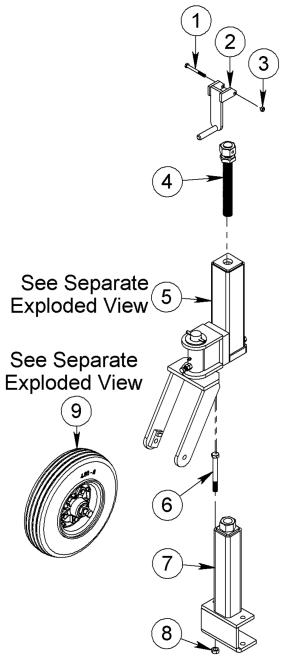


Table 5-4: Pneumatic Running Gear, Parts List

Item No.	Qty.	Part No.	Description
1	1	7020117	Hex Capscrew, 3/8-16 x 3.5 GR. 5
2	1	199-0019P	Running Gear Crank Assembly
3	1	7030006	Nylock Nut, 3/8-16
4	1	199-0041	ACME Screw Assembly
5	1	199-0361	Outer Tube & Yoke Assembly
6	2	7020067	Hex Capscrew 5/8-11 x 6 GR. 5
7	1	Call Henke	Inner Tube Assembly
8	2	7030084	Toplock Nut, 5/8-11 GR. C
9	1	199-0294P	Pneumatic Hub & Wheel Assembly, 5 - Lug
Not Shown	2	199-0064M	1 Complete Assembly With Tire and Wheel Included.
Not Shown	2	199-0063	1 Complete Assembly Without Tire and Wheel.

NOTE:	1. Quantities given are for one running gear assembly. Two complete assemblies are required per plow.

Pneumatic Wheel Kit, 5-Lug Hub

Figure 5-5: Pneumatic Wheel Kit, 5-Lug Hub

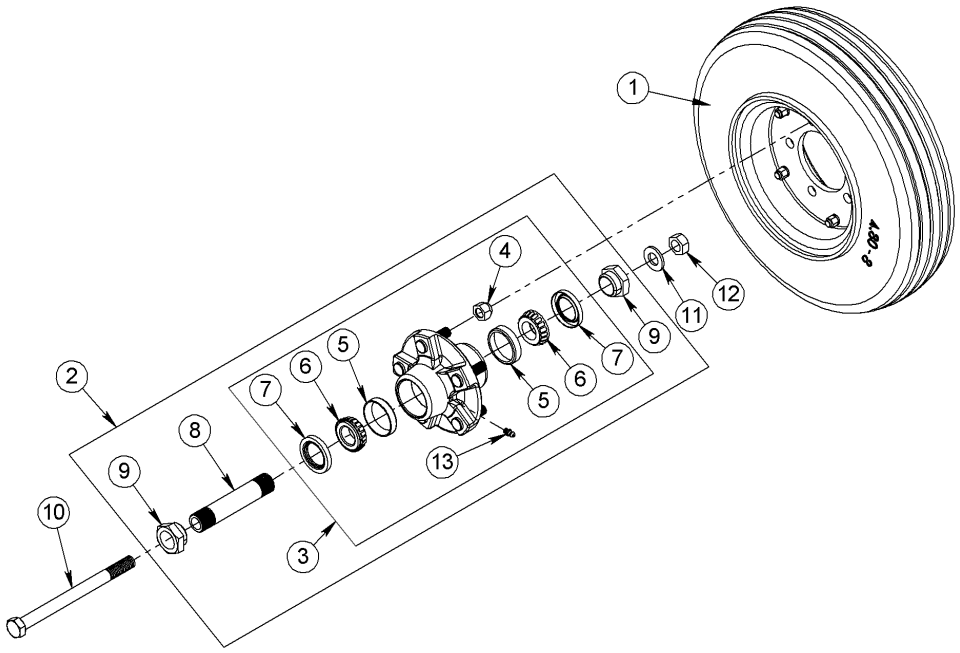


Table 5-5: Pneumatic Wheel Kit, 5-Lug Hub, Parts List

Item No.	Qty.	Part No.	Description
1	1	7140095	Pneumatic Rim & Tire Assembly, 2 Piece, 5-Lug
2	1	199-0295	Hub & Spindle Group Assembly - 5-Lug
3	1	199-0296	Hub Group Assembly
4	5	7030039	Lug Nut, 1/2-20
5	2	7010023	Bearing Cup
6	2	7010003	Bearing Cone
7	2	7140067	Grease Seal
8	1	1900-0070	Spindle
9	2	1900-0154	Spindle Nut
10	1	7020070	Hex Capscrew, 5/8-11 X 8 GR.5
11	1	7040006	Flat Washer, Hardened, 5/8 SAE
12	1	7030084	Toplock Nut, 5/8-11 GR.C
13	1	7090111	Grease Fitting, 1/4-28 Straight

NOTE:	1. Entire assembly shown may be ordered as 199-0294P.

Outer Tube & Yoke Assembly

Figure 5-6: Outer Tube & Yoke Assembly

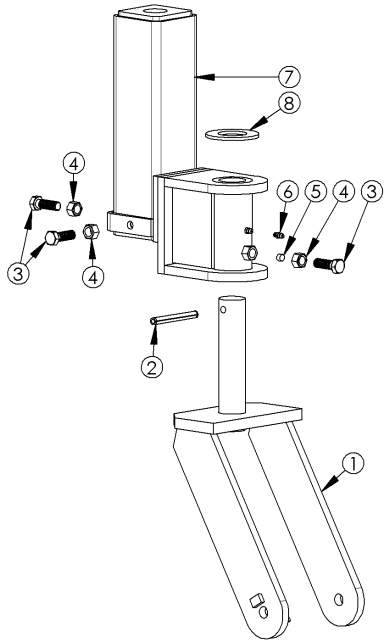


Table 5-6: Outer Tube & Yoke Assembly, Parts List

Item No.	Qty.	Part No.	Description
1	1	199-0062	Yoke Assembly
2	1	7050029	Roll Pin, 3/8 x 3.5
3	3	7020120	Hex Capscrew, 1/2-13 x 1.5 GR. 5
4	3	7030009	Nut, 1/2-13 GR. 8
5	1	1900-0075	Damper pad
6	1	7090111	Grease Fitting Straight 1/4-28
7	1	199-0360	Outer Tube Assembly
8	1	7040024	Flat Washer 1 1/2, Hardened, SAE

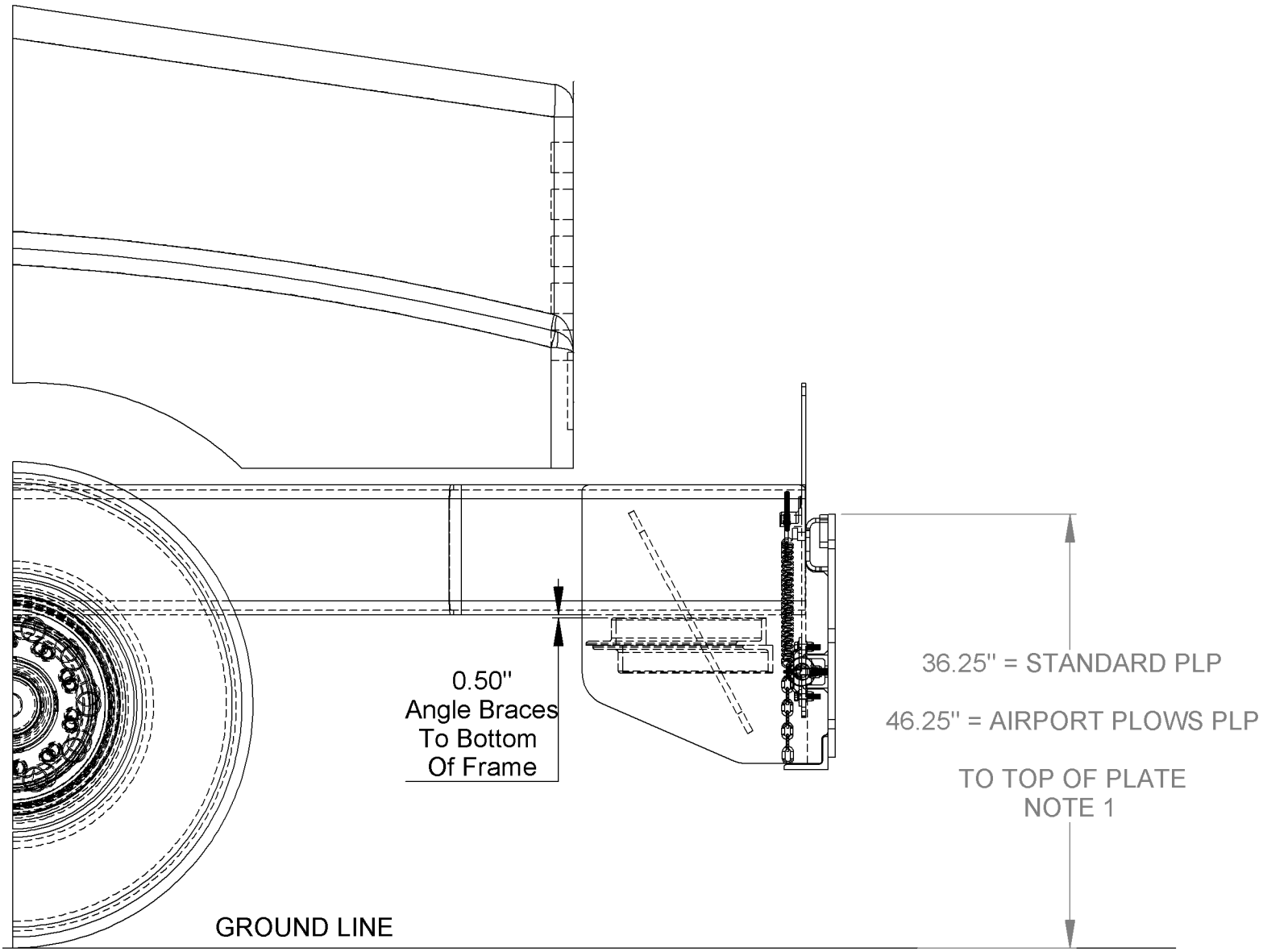
CHAPTER 6: INSTALLATION INSTRUCTIONS

PLEASE READ ENTIRE BOOK BEFORE INSTALLATION, IMPLEMENTATION, OR MAINTENANCE.

Typical Truck Portion Flat Plate Hitch Installation - Side View **60**
Engaging Parallel Lift Plow from Truck Portion Hitch **61**
Dis-Engaging Parallel Lift Plow From Truck Portion Hitch **64**

Typical Truck Portion Flat Plate Hitch Installation - Side View

Figure 6-1: Typical Truck Portion Flat Plate Hitch Installation - Side View



NOTE: 1	**NOTE:** • Mounting Height given is AFTER accounting for settling due to weight of Hitch, Wing, Plow, and other truck components, payload, etc. Unit may have to be mounted higher initially to account for expected settling. • Product appearance, arrangement, or style may vary from what is shown here.

Engaging Parallel Lift Plow From Truck Portion Hitch

PURPOSE:	• To engage a Henke Parallel Lift Pow with a Henke Flat Plate Hitch that is installed on a medium to heavy duty, or airport truck.

NOTES:	• Inspect Plow for components that have become excessively worn or damaged and must be repaired or replaced. • Product appearance, arrangement, or style may vary from what is shown here. • Reference your Parts Manual for hardware quantities and part numbers not listed here.

NOTE FOR THESE INSTRUCTIONS:	• All references made in this manual to right, left, front, rear, center, top, bottom, forward, and backward are as viewed facing the direction of forward travel with the equipment properly attached to the truck (Driver's Point Of View).

STEP 1.1: Pull truck up to but not directly against the plow portion hitch (**Item 9, Page 35**). Ensure that the truck portion and plow portion of the flat plate hitch are centered left-to-right within 2”. If they are not centered within 2”, reposition the truck to obtain the proper position.

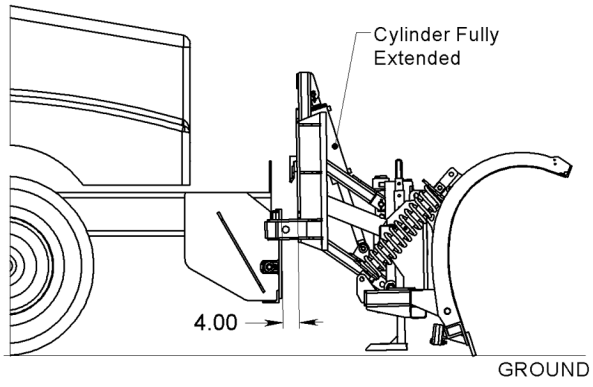
STEP 1.2: Connect the plow hydraulic hoses to the truck hydraulic system.

STEP 1.3: If necessary, use the hydraulics to slightly raise the plow portion hitch so that the bottom of the hooks on the plow portion are positioned higher than the top of the flat plate on the truck portion.

STEP 1.4: If necessary, pull the truck forward or back to get the correct distance between the flat plate on the truck portion and the flat plate on the plow portion:

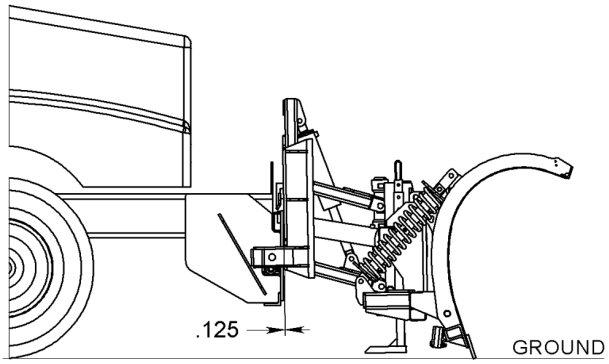
- If the plow portion hitch is in the fully raised position, the dimension between the flat plates should be approx. 4”.

Figure 6-2: Cylinder Fully Extended - Engaging Distance



- If the plow portion hitch is positioned so that hooks are just above the top of the flat plate on the truck portion, the dimension between the flat plates should be approx. 1/8”.

Figure 6-3: Hooks Barely High Enough To Engage - Engaging Distance



STEP 1.5: Using the hydraulics, lower the plow portion hitch until the hooks fully engage with the pockets at the top of the truck hitch, then raise the plow slightly off the ground.

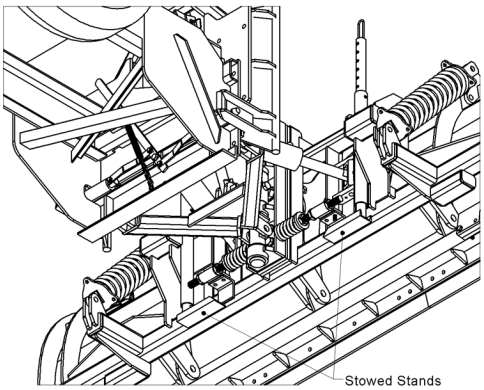
STEP 1.6: Using the lever on the truck portion hitch, engage the pins to secure the plow to the truck portion hitch. See Separate Product Manual for truck portion hitch.

STEP 1.7: Verify that the pins are fully engaged with the plow portion.

NOTE: The outside end of both pins should be protruding through the mating tubes on the truck portion.

STEP 1.8: Using the hydraulics, raise the plow to the full up position, then raise the jackstands (**Item 14, Page 39**) and secure in the full UP position, WITH BOTH STANDS POINTING INBOARD, AS SHOWN IN **Figure 6-4:**.

Figure 6-4: Stands Up, Stands Pointing At Each Other While In Plowing Position.



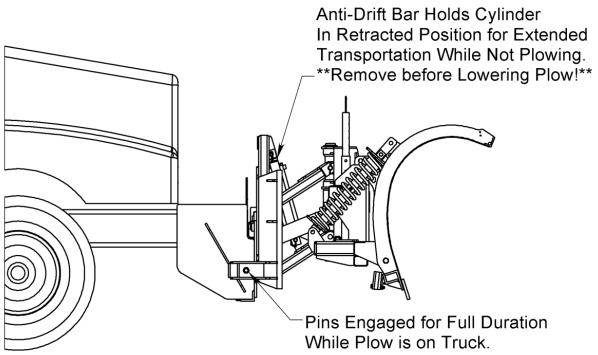
STEP 1.9: Operate the plow reversing hydraulics to ensure that the reversing function is working properly.

STEP 1.10: Operate the plow reversing hydraulics to ensure that the reversing function is working properly.

STEP 1.11: Conduct all required inspections prior to plowing.

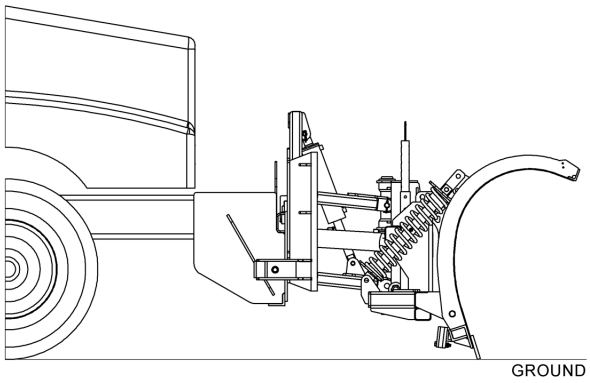
STEP 1.12: If the plow will be transported for an extended period without plowing, install the anti-drift bar (**Item 7, Page 35**) to prevent accidental drifting down of the plow due to hydraulic leakage.

Figure 6-5: Plow Ready To Travel Without Plowing



Important Be sure to remove the anti-drift bar and place in storage position before lowering the plow, or plow damage may result.

Figure 6-6: Plowing Position



Dis-Engaging Parallel Lift Plow From Truck Portion Hitch

PURPOSE:	• To dis-engage a Henke Parallel Lift Pow from a Henke Flat Plate Hitch that is installed on a medium to heavy duty, or airport truck.

NOTES:	• Inspect Plow for components that have become excessively worn or damaged and must be repaired or replaced. • Product appearance, arrangement, or style may vary from what is shown here. • Reference your Parts Manual for hardware quantities and part numbers not listed here.

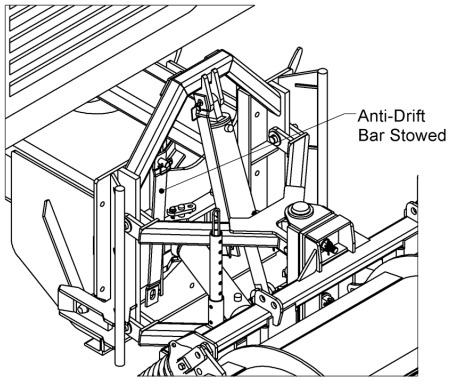
NOTE FOR THESE INSTRUCTIONS:	• All references made in this manual to right, left, front, rear, center, top, bottom, forward, and backward are as viewed facing the direction of forward travel with the equipment properly attached to the truck (Driver's Point Of View).

The Following steps are for Dis-Engaging your Henke Parallel Lift Plow from your Henke Flat Plate Hitch.

STEP 1.13: The plow must be placed on a flat, stable, and level surface when disengaged from the truck.

STEP 1.14: If the anti-drift bar is in place, remove it and place it in storage position before lowering the plow.

Figure 6-7: Anti-Drift Bar Stowed Before Lowering Plow

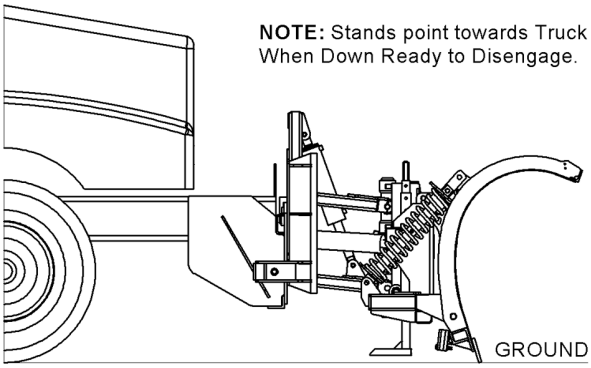


Important Be sure to remove the anti-drift bar and place in storage position before lowering the plow, or plow damage may result.

STEP 1.15: Lower plow until the full length of the cutting edge is just resting on the ground. As soon as this occurs, stop pressing on the hydraulic control, so the plow portion hitch does not attempt to rise up off of the truck portion hitch.

STEP 1.16: Lower jackstands (**Item 14, Page 39**) as close to the ground as possible, and secure in place WITH BOTH STANDS POINTING REARWARD TOWARD THE TRUCK, AS SHOWN IN **Figure 6-8:**.

Figure 6-8: Stands Down Ready To Dis-Engage



STEP 1.17: Using the lever on the truck portion hitch, dis-engage the pins to release the pins from the plow portion hitch. If the pins do not disengage easily, use the hydraulic system to raise the plow portion hitch slightly, which should take any “pressure” off of the pins.

STEP 1.18: Using the lift cylinder, lift the plow portion hitch up and away from the truck.

STEP 1.19: Disconnect plow hydraulics from the truck.

STEP 1.20: Back truck away from plow.

STEP 1.21: Conduct any required inspections.

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CHAPTER 7: SET-UP AND OPERATIONS

PLEASE READ ENTIRE BOOK BEFORE INSTALLATION, IMPLEMENTATION, OR MAINTENANCE.

Parallel Lift Plow Setup and Operation **68**

Parallel Lift Plow Setup And Operation

Hydraulic Requirements:

Truck hydraulic system should be set to 1500 to 3000 psi system pressure and be capable of 10-20 gpm flow rate.

⚠WARNING TO AVOID SERIOUS INJURY OR DEATH FROM LOSS OF STEERING CONTROL OF VEHICLE:

- Always ENGAGE Plow Hydraulic Float while snow plowing
- DO NOT OPERATE Plow if float system is not operating properly

NOTE: If float is not engaged on lift cylinder when plowing, discharging material to the right could cause loss of steering control to the left, and discharging material to the left could cause loss of steering control to the right.

It is **mandatory** that the parallel lift plow be operated with the lift cylinder in float detent position. This allows the plow to float along the road surface, eliminating possible loss of steering control.

The only time that down pressure should be applied on the plow lift cylinder is during the process of hydraulically lifting the plow from the flat plate hitch on the truck. This process should only occur while the truck and plow are parked on a flat, level surface (see detailed procedure in this product manual). 200 psi of downpressure is sufficient for this process. As a secondary safety procedure, to protect against the case of the float detent accidentally not being engaged during plowing, provisions must be made in the hydraulic circuit to ensure that more than 200 psi is never applied to the barrel end of the lift cylinder. The plow comes standard with a 200 psi pressure reducing valve (Henke P/N 7080660), which will work properly with many (but not all) truck hydraulic systems. In some systems, a different type of relief valve may be needed, or the pressure reducing or relief function may be built into the truck hydraulic circuit in a different fashion. Contact Henke Manufacturing with questions.

The parallel lift plow comes equipped with a 1000 psi crossover relief valve installed into the reversing circuit. This valve protects the plow and truck against shock loads that may occur during plowing. It also provides for pressure relief on the reversing circuit which may be necessary while raising or lowering the plow at the fully reversed position. Do not substitute a higher pressure crossover relief valve or modify the valve to increase the relief pressure.

Important Failure to install and properly utilize appropriate hydraulic relief functions on the plow lift or plow reversing circuits will void the plow warranty.

Runner Shoe Adjustment (if Equipped)

Raise plow, retract running gear. Lower plow so the cutting edge is touching the ground. Lower running gear until full contact with the ground is made. Plow performs best when the weight of the plow is evenly distributed between the cutting edge and the runner shoes.

Inspection

Follow your organization's procedure for walk around safety and vehicle checks before operating. Include the snow plow in this procedure to check for loose, missing, or excessively worn components. Check for cracks or breaks in the components and structure. Check for proper markers, reflectors and safety decals, if any. Replace any items as needed before operating.

Drive Prudently For The Road Conditions.

In good plowing conditions, reversible plows can generally be operated safely and with good results up to 30 mph; expressway and one way plows up to 40 mph.

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CHAPTER 8: MAINTENANCE

PLEASE READ ENTIRE BOOK BEFORE INSTALLATION, IMPLEMENTATION, OR MAINTENANCE.

In Season Maintenance **72**
End Of Season Maintenance **73**

In Season Maintenance

Snow removal equipment must be cared for and maintained regularly. Daily or pre-route inspection and maintenance are necessary. Failure to do so may affect efficiency and safety.

A visual inspection must be carried out after every 8 hours of operation. Look for damaged components, bends, cracked welds or hydraulic leaks. **REPAIR IMMEDIATELY!** Re-torque all bolts after the first 8 hours of use and to regularly check for loosened or missing fasteners. Replace any damaged or missing fasteners immediately.

Because of the environment in which snow equipment is expected to operate, hydraulic lines, fasteners, wearable or replaceable items and warning decals may become damaged by snow, ice and road debris. These items must be inspected daily and replaced if necessary to avoid equipment damage or personal injury.

Lubrication of moving parts is of the utmost importance. Exposure to snow, ice, salt and road debris will wash away lubrication quickly and it may be necessary to inspect and reapply lubrication more than once a day.

End Of Season Maintenance

GROUND ENGAGING COMPONENTS

- **CUTTING EDGES & GUARDS:** Replace any broken cutting edges, unevenly or excessively worn cutting edges, and broken or worn wear guards.
- **RUNNING GEAR:** Replace broken, worn, or missing running gear shoes, and any damaged adjuster leg components. Grease internal threads and sliding members (it's best to disassemble and grease directly; zerks aren't as effective at greasing these areas).
- **HARDWARE:** Replace missing or broken bolts. Proper torque is important! Use grade 8 plow bolts for steel cutting edges.

HYDRAULICS

- **HOSES:** Plug or cap any QC fittings or any open hose ends. Inspect hoses for any leaks or potential leaks. Secure hoses with hose clamps.
- **CYLINDERS:** Check for leaks, and any chrome rod dents or scratches. Apply a light coat of oil or grease on exposed rod surfaces.

FRAME AND MOLDBOARD

- **JOINTS:** Check pins, bushings, and pivot bolts for wear. Make sure all keepers are in place. Make sure shear bolts and pins are same as original equipment (usually grade 2). Some drivers don't like replacing shear pins and will install grade 8 replacements to avoid replacing during a storm. These items are designed to shear to protect driver and equipment. **CHECK WELDMENTS FOR CRACKS**.

CABLE AND SHEAVES

- **CABLE:** Check cable thoroughly for fraying, kinks, and abnormal wear. Make sure cable is properly routed and seated in all sheaves. Verify that cable clamps have proper torque and are in correct orientation and spacing. Cable shall be checked prior to each use or after every 8 hours, whichever comes first.
- **SHEAVES:** Verify that sheave, bushings and retaining pins are in good condition and adequately greased. Make sure that sheaves, bushings and pins do not have any abnormal wear and rotate without restriction.

REPLACE WORN OR BROKEN PARTS FOUND BY ABOVE INSPECTIONS

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CHAPTER 9: REPLACEMENT WEAR PARTS

PLEASE READ ENTIRE BOOK BEFORE INSTALLATION, IMPLEMENTATION, OR MAINTENANCE.

Cutting Edges **76**
Cutting Edge Hardware **77**
Curb Guards & Wear Guards **78**

Cutting Edges

Table 9-1: Cutting Edges

CARBIDE	3/4" THICK
3FT.X5" TALL	Call Henke
3FT.X6" TALL	7150035
3FT.X8" TALL	7150163
4FT.X5" TALL	7150123
4FT.X6" TALL	7150025
4FT.X8" TALL	7150164
5FT.X8" TALL	7150097
6FT.X6" TALL	7150124

6" STEEL	1/2" THICK	5/8" THICK	3/4" THICK
2FT.	Call	7150119	7150189
3FT.	7150153	7150120	7150073
4FT.	7150154	7150129	7150072
5FT.	7150007	7150184	7150026
6FT.	Call Henke	Call Henke	7150004
7FT.	Call Henke	Call Henke	7150028
8FT.	7150172	Call Henke	Call Henke
9FT.	Call Henke	Call Henke	7150036
10FT.	7150008	7150090	7150197
11FT.	7150009	7150089	7150031
12FT.	7150010	7150082	7150032

8" STEEL	1/2" THICK	5/8" THICK	3/4" THICK
2FT.	7150039	7150077	Call Henke
3FT.	7150037	7150078	Call Henke
4FT.	7150038	7150079	Call Henke
5FT.	7150011	Call Henke	7150054
6FT.	7150005	7150081	7150055
8FT.	7150012	Call Henke	7150042
9FT.	7150013	7150045	7150046
10FT.	7150014	7150043	7150047
11FT.	7150015	7150040	7150048
12FT.	7150016	7150044	7150049

CP 6" STEEL	1/2" THICK	5/8" THICK	3/4" THICK
3FT.	7150186	Call Henke	Call Henke
4FT.	7150187	Call Henke	Call Henke

CP 8" STEEL	1/2" THICK	5/8" THICK	3/4" THICK
3FT.	7150021	Call Henke	Call Henke
4FT.	7150022	Call Henke	Call Henke
10FT.	7150017	Call Henke	7150171
11FT.	7150018	7150169	Call Henke
12FT.	7150019	7150056	Call Henke

CP 10" STEEL	1/2" THICK	5/8" THICK	3/4" THICK
10FT.	Call Henke	Call Henke	7150050

RUBBER Notes 5&6	1 1/2" THICK X 10" TALL CP	RETAINING STRIP
8FT.	3500-0008	3500-0026
9FT.	3500-0009	1300-2223
10FT.	3500-0010	1300-0394
11FT.	3500-0011	1300-0395
12FT.	3500-0012	1300-0396
14FT.	3500-0014	1300-0401
16FT.	3500-0016	1300-0402

SNOW BASKET	1" THICK X10" TALL CP
8FT.	7150052
9FT.	7150053
10FT.	7150088

NOTE:

1. For Cutting Edges Not Listed Call Henke Manufacturing at 1-888-682-9010.
2. Except as noted, all cutting edges have 1.5" gauge line (distance from top edge to center of holes)
3. "CP" = Center Punched
4. All edges shown are punched for 5/8" bolts.
5. For rubber cutting edges, 6" tall center punched steel edges, Items 7150186 & 7150187 may be used to provide proper support behind the rubber edge.
6. Henke's rubber cutting edges feature a minimum tensile strength of 2000 psi and a maximum DIN rating of 150, and last much longer in service than lower quality rubber cutting edges available from some other suppliers.
7. Polyurethane cutting edges also available - call for price and availability.

Cutting Edge Hardware

Table 9-2: Cutting Edge Hardware

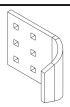
Type	Length	Part No.	Uses/Notes
PLOW BOLTS 5/8-11 GRADE 8	2" 2 1/2" 3" 3 1/2" 4" 4 1/2" 5" 6"	7150001 7150003 7150002 7150103 7150105 7150106 7150108 7150107	FOR: Standard Cutting Edges and Wear Guards
CARRIAGE BOLTS 5/8-11 GRADE 8	3" 4" 5" 6"	7020280 7020287 7020359 7020363	FOR: Some wrap around curb guards (Square Holes, Not Counter Sunk)
HEX BOLTS	4" 4 1/2" 5"	7020064 7020128 7020295	FOR: Rubber and Poly Cutting Edges (Use Nylock Nuts Only)
TOPLOCK NUT 5/8-11 GRADE C	N/A	7030084	FOR: Steel or Carbide Cutting Edges
NYLOCK NUT 5/8-11 GRADE 8	N/A	7030095	FOR: Rubber or Poly Cutting Edges

Curb Guards & Wear Guards

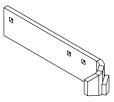
Table 9-3: Henke Curb Guards & Wear Guards

Curb Guards

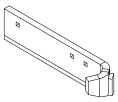
Wrap-Around Curb Guards, Steel

	7150122	6”, Left
	7150121	6”, Right
	7150117	8”, Reversible

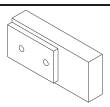
Wrap-Around Curb Guards, Chrome-Carbide Weld Deposit on Wrap-Around Corner

	7150125	6”, Left
	7150126	6”, Right
	7150115	8”, Left
	7150118	8”, Right

Wrap-Around Curb Guard + Wear Guard, Chrome-Carbide Weld Deposit on Wrap-Around Corner + on Bottom Wear Edge

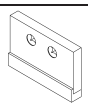
	7150113	6”, Left
	7150114	6”, Right
	7150130	8”, Left
	7150131	8”, Right

Bolt-On Curb Guards (Bolts to Outside of End Rib)

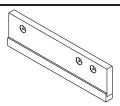
	139-1046	Bolt-On Guard Assembly.
	1300-1633	Optional spacer (Required for Trip Edge Applications)

Wear Guards

Wear Guards, Standard Length (9”), with Chrome-Carbide Weld Deposit (Mount in front of cutting edge)

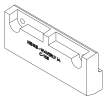
	7140106	6”, Reversible
	7140107	8”, Reversible

Wear Guards, Long Length (21”), with Chrome-Carbide Weld Deposit (Mount in front of cutting edge)

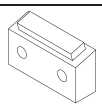
	7140108	6”, Reversible
	7140008	8”, Reversible

Cast Wear Shoes

(Mount behind cutting edge)

	7140004	Wear shoe for 6” cutting edges, or 8” center-punched edges
	7140002	Wear shoe for 8” cutting edges

Bottom Angle Saver (Mount behind of Bottom Angle)

	199-0280	Bottom Angle Saver with Carbide Strip

CHAPTER 10: WARRANTY & DEALER PROCEDURE

PLEASE READ ENTIRE BOOK BEFORE INSTALLATION, IMPLEMENTATION, OR MAINTENANCE.

HENKE LIMITED WARRANTY **81**

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HENKE LIMITED WARRANTY

1.0 LIMITED WARRANTIES

1.1 Henke warrants for one year from the purchase date to the original non-commercial, governmental, or municipal purchaser ("Purchaser") and warrants for thirty-six months to the original commercial or industrial purchaser

1.2 Manufacturer will repair or replace for the Purchaser any part or parts found, upon examination at one of its factories, to be defective under normal use and service due to defects in material or workmanship.

1.3 This limited warranty does not apply to any part of the goods which has been subjected to improper or abnormal use, negligence, alteration, modification, or accident, damaged due to lack of maintenance or use of wrong fuel, oil, or lubricants, or which has served its normal life. This warranty does not include normal wear items such as cutting edges, wear guards, scarifier teeth, etc. or improper installation. HMC warranty for any purchased components, such as hydraulic cylinders will be superseded by, and equal to the component manufacturer warranty.

1.4 Except as provided herein, no employee, agent, Dealer, or other person is authorized to give any warranties of any nature on behalf of Manufacturer.

2.0 REMEDIES AND PROCEDURES.

2.1 Warranty claims must be filled within 30 days of repair work during the one year warranty period and will be honored only if the completed warranty registration form has been returned. Henke reserves the right to require proof of purchase of original Henke replacement parts. If warranty is approved any allowed shipping expenses will be based on and will not exceed standard base shipping charges.

2.2 Purchaser claims must be made in writing to the Authorized Dealer ("Dealer") from whom Purchaser purchased the goods or an approved Authorized Dealer ("Dealer") within 30 days after Purchaser learns of the facts on which the claim is based.

2.3 Purchaser is responsible for returning the goods in question to the Dealer.

2.3.1 If after examining the goods and/or parts in question, Manufacturer finds them to be defective under normal use and service due to defects in material or workmanship, Manufacturer will:

2.3.2 Repair or replace the defective goods or part(s) or

2.3.3 Reimburse Purchaser for the cost of the part(s) and reasonable labor charges (as determined by Manufacturer) if Purchaser paid for the repair and/or replacement prior to the final determination of applicability of the warranty by Manufacturer.

2.3.4 The choice of remedy shall belong to Manufacturer.

2.4 Purchaser is responsible for any labor charges exceeding a reasonable amount as determined by Manufacturer and for returning the goods to the Dealer, whether or not the claim is approved. Purchaser is responsible for the transportation cost for the goods or part(s) from the Dealer to the designated factory.

3.0 LIMITATION OF LIABILITY.

3.1 MANUFACTURER DISCLAIMS ANY EXPRESS (EXCEPT AS SET FORTH HEREIN) AND IMPLIED WARRANTIES WITH RESPECT TO THE GOODS INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

3.2 MANUFACTURER MAKES NO WARRANTY AS TO THE DESIGN, CAPABILITY, CAPACITY, OR SUITABILITY FOR USE OF THE GOODS.

3.3 EXCEPT AS PROVIDED HEREIN, MANUFACTURER SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO PURCHASER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS, OR DAMAGE CAUSED OR ALLEGED TO BE CAUSED DIRECTLY OR INDIRECTLY BY THE GOODS INCLUDING, BUT NOT LIMITED TO, ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES RESULTING FROM THE USE OR OPERATION OF THE GOODS OR ANY BREACH OF THIS WARRANTY. NOT WITHSTANDING THE ABOVE LIMITATIONS AND WARRANTIES, MANUFACTURER'S LIABILITY HEREUNDER FOR DAMAGES INCURRED BY PURCHASER OR OTHERS SHALL NOT EXCEED THE PRICE OF THE GOODS.

3.4 NO ACTION ARISING OUT OF ANY CLAIMED BREACH OF THIS WARRANTY OR TRANSACTIONS UNDER THIS WARRANTY MAY BE BROUGHT MORE THAN TWO (2) YEARS AFTER THE CAUSE OF ACTION HAS OCCURRED.

4.0 MISCELLANEOUS.

4.1 Proper Venue for any lawsuits arising from or related to this limited warranty shall be only in Leavenworth County, Kansas.

4.2 Manufacturer may waive compliance with any of the terms of this limited warranty, but no waiver of any terms shall be deemed to be a waiver of any other term.

4.3 If any provision of this limited warranty shall violate any applicable law and is held to be unenforceable, then the invalidity of such provision shall not invalidate any other provisions herein.

4.4 Applicable law may provide rights and benefits to purchaser in addition to those provided herein.

5.0 KEEP FOR YOUR RECORDS:

ATTENTION: Purchaser should fill in the blanks below for his reference when buying repair parts and/or for proper machine identification when applying for warranty.

Henke Implement Model: _____ Serial Number: _____

Date Purchased: _____ Dealer: _____

Important

READ YOUR OPERATOR'S MANUAL

HENKE MANUFACTURING
An Alamo Group Company
3070 WILSON AVE.
LEAVENWORTH, KS 66048

HENKE™

(888) 682-9010

Dealer Warranty Procedure

For units delivered within the past 12 months, report any warranty problems needing repair to our Product support department. Please have information ready regarding:

1. Henke unit model and serial number,
2. Model of equipment Henke unit is attached to (prime mover)
3. Description of the problem and any helpful information by the end user. (Photos are always helpful).

Measurements or photos may be requested by Henke engineering for any issues regarding prime mover proximity and clearance, or any other unique considerations of fit and adaptability. These may be necessary for a proper repair recommendation and procedure.

Henke will respond with a written labor hour allowance for Henke participation on a faxed claim form and will ship any required replacement parts. If necessary, a repair procedure will be included on the claim form. A parts invoice will be generated to confirm shipment of the replacement parts.

If defective parts are needed for analysis, Henke will request their return. Any such returned items are to be labeled with the claim number and returned to:

HENKE MANUFACTURING CORPORATION
ATTN: Product Support
3070 WILSON AVE.
LEAVENWORTH, KS 66048
RGA#_____

The dealer should perform repairs as agreed on a dealer warranty repair order. Return the claim form with a copy of the dealer warranty repair order and service report. Credit as agreed will be issued to the dealer upon receipt of the dealer warranty repair order invoice (Pro-forma invoice), and upon receipt, inspection and warranty confirmation of the returned parts if any.

Parts & Service Assistance

Parts inquiries may be emailed at any time to **parts@henkemfg.com**. Emails are encouraged, as this will direct your inquiry to the entire parts and service team, insuring the most prompt attention possible. All inquiries are processed in the order they are received.

Parts and service assistance is also available, Monday through Friday, from 7:00 am to 4:30 pm, CST, call **(913) 682-9000 x3**, or Toll Free **(888) 682-9010 x3**.

Our web site, **www.henkemfg.com**, is a quick source for parts pricing, and many common parts diagrams. Go to **www.henkemfg.com/parts-and-service/** to submit a quick request ticket for parts.