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WAUSAU HOME SAFE PLOW MODELS HSP, HSS, AND HW

OPERATION AND MAINTENANCE MANUAL



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SAFETY NOTES AND WARNINGS

NOTE: Appropriate maintenance methods and operation procedures are required for safe, reliable operation of the unit as well as for the safety of operators and servicing technicians.

This manual provides general and specific directions for the operation of the Wausau Equipment Company, Home Safe Plow.

AVOID ACCIDENTS

Most accidents, whether they occur in industry, on the farm, at home, or on the highway, are caused by the failure of some individual to follow simple and fundamental safety rules or precautions. For this reason, recognizing the real cause and doing something about it before the accident occurs can prevent most accidents.

Regardless of the care used in the design and construction of any type of equipment, there are many conditions that cannot be completely safe-guarded against without interfering with reasonable accessibility and efficient operation.

A careful operator is the best insurance against an accident. The complete observance of one simple rule would prevent many thousand serious injuries each year. That rule is:

NEVER ATTEMPT TO CLEAN, OIL, OR ADJUST A MACHINE WHILE IT IS IN MOTION.

NATIONAL SAFETY COUNCIL

Wausau Equipment Company, Inc. cannot anticipate every possible circumstance that might involve a potential hazard. Anyone deviating from the instructions provided must first establish that personal safety, system, and/or vehicle integrity is not compromised. Throughout this manual, Dangers, Warnings, Cautions, and Notes provide specific guidelines for the safe and proper operation and service of the equipment.

- **DANGER**: Indicates an imminently hazardous situation, which, if not avoided, **WILL** result in death or serious injury.
- **WARNING**: Indicates a potentially hazardous situation, which, if not avoided, **COULD** result death or serious injury.
- **CAUTION**: Indicates a potentially hazardous situation, which, if not avoided, **MAY** result in minor or moderate injury and property damage. It may also be used to alert against unsafe practices.
- **NOTE**: Highlights information that is beneficial while following a procedure or to avoid an unwanted situation.

This information is furnished to prevent damage to equipment and/or injury to personnel. Be fully aware of the dangers inherent to heavy equipment operation and snow removal.

ILLUSTRATIONS

For pictorial clarity, some illustrations in this manual may show shields, guards, or plates open or removed. Under no circumstance should this equipment be operated without these devices securely fastened in place.

PERSONAL SAFETY

- Keep clothing and limbs away from moving parts.

OPERATION SAFETY

WARNING

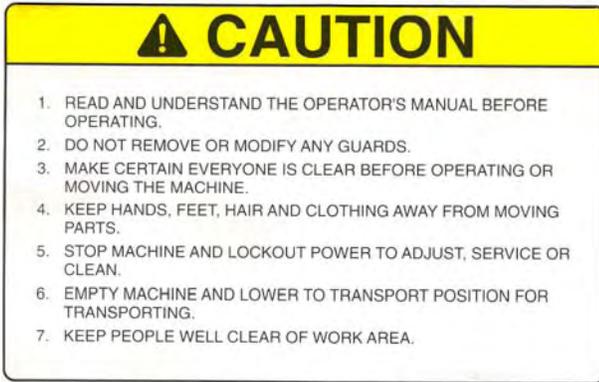
Equipment operated improperly or by untrained personnel can be dangerous. Familiarize yourself with the location and proper use of all controls. Inexperienced operators should receive instruction from someone familiar with the equipment before being allowed to operate the machine.

- Safety is dependent upon the awareness, concern, and prudence of those who operate or service the equipment. Never allow minors to operate any equipment.
- Read and understand all operating manuals pertaining to operation. It is your responsibility to read this manual and all publications associated with this equipment (engine manual, accessories, and attachments). If the operator cannot read English, it is the owner's responsibility to explain the material contained in this manual to them.
- Learn the proper use of the machine, the location and purpose of all the controls and gauges before you operate the equipment. Working with unfamiliar equipment can lead to accidents. Familiarize yourself with the driving and handling of the machine before actually plowing snow. Practice plowing in a non-congested area before on-the-job operations.
- Never allow anyone to operate or service the machine or its attachments without proper training and instructions; or while under the influence of alcohol or drugs. Never work on the machine with components running.
- Wear all the necessary protective clothing and personal safety devices to protect your head, eyes, ears, hands, and feet. Operate the machine only in daylight or in good artificial light.
- Inspect the area where the equipment will be used. Beware of overhead obstructions (low tree limbs, etc.) and underground obstacles. Enter a new area cautiously. Stay alert for hidden hazards.
- Never direct discharge of debris toward bystanders, nor allow anyone near the machine while in operation. The owner/operator can prevent and is responsible for injuries inflicted to themselves, bystanders, and damage to property.
- Never operate equipment that is not in perfect working order or is without decals, guards, shields, discharge deflectors, or other protective devices securely fastened in place.
- Never disconnect or bypass any switch.
- Carbon monoxide in the exhaust fumes can be fatal when inhaled. Never operate the engine without proper ventilation.

- Fuel is highly flammable, handle with care.
- Keep the engine clean. Allow the engine to cool before storing and always remove the ignition key.
- Always engage parking brake when leaving machine. Always disengage components when leaving the machine.
- Equipment must comply with the latest federal, state, and local requirements when driven or transported on public roads. Check to be certain all lights are functioning, i.e. turn signal, brake lights, head lights, flasher, etc. Check to be certain back up alarm is working.
- Never use your hands to search for oil leaks. Hydraulic fluid under pressure can penetrate the skin and cause serious injury.
- To prevent tipping or loss of control, do not start or stop suddenly; reduce speed when making sharp turns. Use caution when changing direction on slopes.
- Keep legs, arms and body inside the seating compartment while the vehicle is in motion. Always wear seat belts.
- Clean all glass areas (windows and mirrors) for better visibility. Remember to adjust mirrors when you switch seats.
- Never work under machinery without using approved safety supports.
- Use caution when removing objects such as wire, rope, cable, etc.
- Always use extreme caution when backing up.

SAFETY DECALS

For safety decals and information not included here refer to the appropriate Appendix or OEM vendor documentation.



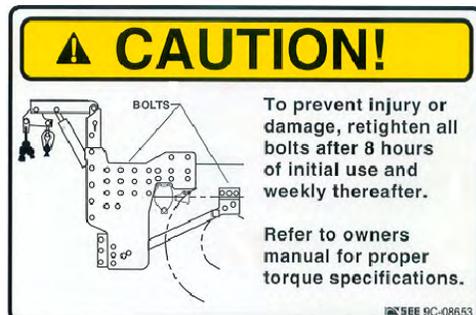
9C-09868



9C-08652



9C-08649



9C-08653



9C-08650



9C-08655



9C-08651

**CAUTION CASTER WHEEL NOT SHOWN
9C-09012**

NOTE: If your safety decals are damaged or destroyed, please call us at (800) 788-6066 or (262) 784-6066 and we will provide you with new decals at no charge to you. Use the 9C-XXX part number located in the lower right hand corner of decal or the 9C-XXX number located under the decal, on the left hand side, in this manual.

SERVICE

- Never attempt to clear obstructions or work in plow area while the unit is running. Always stop engine with ignition key off.
- Always disconnect battery when:
 - Installing new equipment
 - Connecting or disconnecting electrical components
 - Welding
- Do not use damaged or broken parts
- Use only authorized parts and components
- Do not use unapproved lubricants/fluids
- Cover all exposed openings when removing parts or hoses
- Do not attempt to remove or disassemble components under pressure (e.g. hydraulic system, engine)
- A variety of **CAUTION** and **WARNING** labels are located in the cab and on the machine. Operators and service technicians must heed these notices for personal safety and operation.

CAUTION

If a problem occurs, make repairs immediately. Do not continue to operate machine.

By following all instructions in this manual, you will prolong the life of your machine and maintain its maximum efficiency. Adjustments and maintenance should always be performed by a qualified technician. If additional information or service is needed, contact your Wausau Equipment Company, Inc. authorized WAUSAU™ dealer who is kept informed of the latest methods to service this equipment and can provide prompt and efficient service.

DRIVING SAFETY

Observe the following warning to insure maximum performance, avoid equipment damage, and prevent serious personal injury or death.

WARNING

Adding equipment to a vehicle will alter the handling and performance characteristics of the carrier vehicle. These changes may include, but are not limited to, steering, acceptable work and travel speeds, unit weight, center of gravity, fuel consumption, and vehicle wear and tear.

During the original installation, Wausau Equipment Company may install or modify additional equipment to support the plow. Any subsequent removal, replacement, or alteration of the unit can result in unpredictable operating characteristics that the Original Equipment Manufacturers of record may not support.

- When working on this equipment for maintenance, adjustments, or hydraulic work, make sure equipment is lowered and resting on level ground.
- When equipment has to be raised to perform maintenance work, equipment such as blowers, plows, brooms, drive frames, etc. should be supported by a solid structure resting on level ground.
- When equipment is ready to be raised, lowered, or reversed, make sure to STAND CLEAR.
- It is the operator's responsibility to be familiar with the handling characteristics of the equipment and to discriminate between safe and unsafe practices based on these characteristics and on the environmental conditions at the time of operation.

UNITS INVOLVED IN ACCIDENTS

If a machine is involved in an accident, inspect, and repair it before putting it back into service.

- Replace or repair any damaged parts and components
- Ensure that moving parts are not binding or otherwise restricted
- Ensure that attaching hardware is properly fastened and tightened
- Repair any fluid leaks. Ensure that fluid levels are full

1. INTRODUCTION

The purpose of this manual is to provide the operator with the information necessary to safely operate this unit. Wausau Equipment Company strongly recommends that personnel thoroughly familiarize themselves with the operation and maintenance information contained in this manual.

Customers have the option of polyurethane or steel moldboards. Polyurethane moldboards are 3/8" thick and backed with a steel framework and reinforcing ribs to avoid corrosion zones. Steel moldboards are 3/16" thick.

The trip edge is designed to trigger upon contact with an obstacle and then reset to continue plowing operations. The trip mechanism features heavy-duty construction with adjustable 3/4" horizontal torsion springs.

Hydraulic cylinders reverse the plow for right or left hand discharge of snow.

2. MOUNTING AND ADJUSTMENT PROCEDURES

2.1 Mounting Plow and Drive Frame to Truck

- Place the unit on a level surface with plow in bulldoze position
- Make sure the hydraulic cylinders are both half extended so that the drive frame mounts perpendicular to the plow
- Make sure the cutting edge of the plow remains on the level floor when raising the rear of the A-frame
- Drive the truck into position

NOTE: A second person should guide the operator slowly forward until the drive frame ears of the oscillating beam fit between the drive plates on the truck hitch

- Raise the A-frame with a jack or crane to the 19" level, see Figure 1 on Page 3. (Use the parking leg, if so equipped)

CAUTION

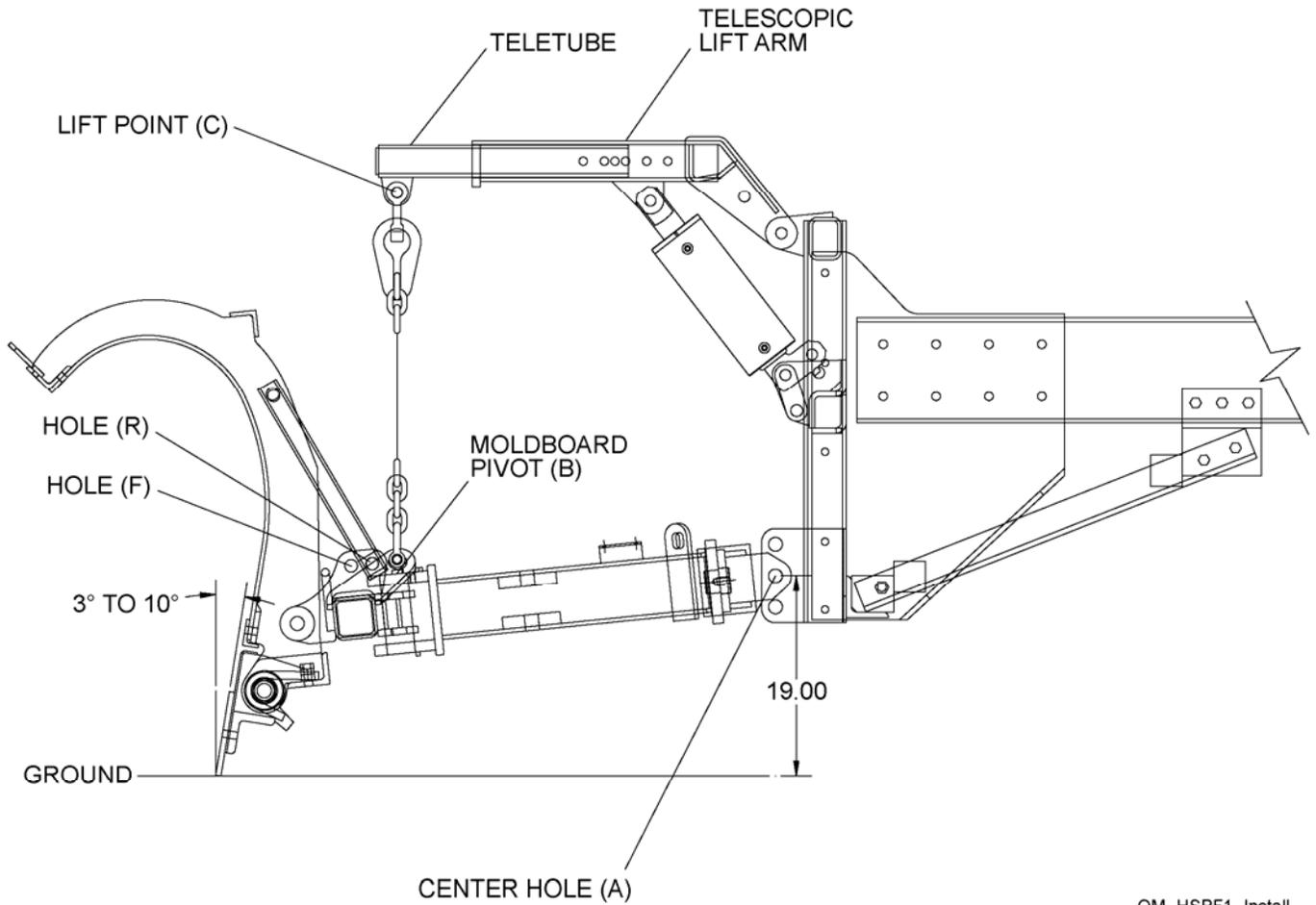
Never stand between the truck and drive frame when the vehicle is being driven into position.

- Connect the plow drive frame to the truck hitch by inserting two drive pins and secure with cotter pins

CAUTION

Make sure the plow is securely attached to the truck body. Periodically check hardware to make sure they are secure and retighten as required.

Figure 1. Mounting and Attack Angles



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2.2 Changing Cutting Edge Attack Angle

The Home Safe Plow is available with a carbide, steel, or rubber cutting edge.

The cutting edge attack angle should be 3 to 10 degrees from vertical when the drive height of the plow is 19 inches, see Figure 1 on Page 3.

- Mount the braces in rear holes (HOLE (R), Figure 1 on Page 3) of the truss frame
- When the drive frame is used in a horizontal position, due to use with a different truck hitch design, the front holes (HOLE (F), Figure 1 on Page 3) of the truss frame should be used

CAUTION

Make sure the plow is secured to a crane and cannot fall backwards or forwards before disconnecting the braces and adjusting the cutting edge angle (attack angle) when the plow, drive frame and truck are connected.

CAUTION

Make sure the truck engine is shut off and auxiliary brakes of the truck are engaged before adjusting cutting edge attack angles.

2.3 Reversing the Plow

- Lower the plow until cutting edge is back down on ground.
- Connect the two hydraulic hoses from the cushion valve on the drive frame to the hydraulic circuit of the truck
- Connect the male and female quick couplers to the truck quick couplers
- Reverse plow a dozen times to make sure air is removed from the hydraulic system

2.4 Torsion Spring Adjustment

The torsion springs are factory set to maximum pressure. If the plow trips too hard, follow the following procedures:

- Loosen one spring tension bolt on one side of the plow
- Place flat washer(s) to a maximum of 1/4" under the spring keeper and fasten tension bolt
- Loosen the second spring tension bolt on the other side of plow
- Place flat washer(s) to a maximum of 1/4" under the spring keeper and fasten tension bolt
- Test the tripping action of the plow, if plow continues to trip too hard, add washers to the rest of the remaining springs

To remove torsion springs follow the following procedures:

- Place plow with front (plowing surface) down on a level surface

- Loosen all spring tension bolts and remove bolts, nuts and spring keepers
- Remove two bolts and lock nuts from hinge tube
- Slide the hinge tube out of the plow and trip edge assembly

WARNING

Before sliding the hinge tube out of the plow and trip edge assembly, make sure the plow or trip edge assembly cannot fall and do bodily harm.

- Replace the spring(s), clean and grease the hinge tube and plow assemblies, and slide the hinge tube back into position
- Mount the hinge tube bolts and nuts
- Fasten springs with tension bolts, lock nuts, and spring keepers

2.5 Chain Level Lift Adjustment

- With the plow on a level surface, lower the lift arm of the hitch until the arm is approximately parallel to the ground
- Extend the teletube until LIFT POINT (C), Figure 1 on Page 3, is directly over the MOLDBOARD PIVOT (B), Figure 1 on Page 3
- Insert pin through the teletube and lift arm
- Adjust the chain lengths, equally on both sides, to obtain 12 inches of ground clearance under the cutting edge when the lift cylinder is completely extended

3. OPERATION

3.1 Plow Operation

- Do not attack a snow bank or a furrow of snow at plowing speeds
- Always reduce ground speed when applying load to the plow
- Adjust plowing speeds to existing road conditions, i.e. the more severe the road surface, the slower the plowing speed
- Never alter or defeat factory adjustments or materials in any safety device, i.e. trip spring adjustment, shear bolt size, cushion valve, or relief valve adjustment

3.2 Lowering and Raising Plow in Plowing Operations

- To raise the plow, pull the plow lift lever. When the lift lever is released, the valve will return to a neutral hold position and the plow will remain in that position
- To lower the plow, push the plow lift lever. When the lift lever is released, the valve will return to a neutral hold position

NOTE: Some lift valves have a detent or (float) position on the lower (down) position. When plowing snow with this hydraulic arrangement, it is necessary to hold the lever in the down position momentarily to allow the plow to find its lowest level.

When this has been accomplished, release the lever and the plow will properly follow the contour of the plowing surface.

Some trucks are equipped with a four position plow lift valve with a detent in the down position. This is seen especially on trucks with rollover snow plows. The plow will naturally find its lowest level to follow the contour of the plowing surface.

CAUTION

When lowering the plow in snow plowing operations, make sure the plow does not drop instantly. The caster wheels may hang in a reversed position and a sudden drop will do damage to the tires and hubs.

WARNING

If the hitch was not factory installed at Wausau Equipment Company, Inc. it is possible that the plow may lower too fast. A restrictor must be installed in the hydraulic line to the lift cylinder. Make sure the restriction to the flow is in the down hydraulic circuit only.

3.3 Reversing Plow in Plowing Operations

The plow can easily be reversed when plowing snow. The plow reverse lever operates a three-position valve.

The plow will reverse up to 32 degrees to the left or right hand side. When the lever is released, it will shift back to the neutral hold position. The plow can be used at any plowing angle the operator prefers.

4. SERVICE PROCEDURES

4.1 Initial Service Procedures

- Check bolts for tightness. Torque loose bolts to the limits set forth in Table 1, Torque Specification Chart located in the Parts Manual
- Check that all pins are equipped with a keeper
- Adjust lifting or carrying devices for desired plow action
- Grease all fittings and exposed threads on adjusting screws
- Inspect all hydraulic hoses for possible chaffing or pinching
- Inspect all hydraulic fittings for signs of leakage
- Ensure both hydraulic quick coupler halves are free of contamination before coupling

NOTE: If a problem is discovered, make repairs immediately. Do not continue to operate machine.

4.2 Service Procedures After the First 4 Hours

- Check all bolts for tightness and replace as required
- Inspect all pins for loose or broken cotter pins

4.3 Service Procedures 8 - 10 Hours

- Grease all adjusting screws and grease fittings
- Spray lubricant on all pivot points on the plow, i.e. moldboard pivot pins
- Check all bolts for looseness or breakage and replace as required
- Inspect lift mechanism for wear
- Check hitch-locking mechanism to ensure plow is secure
- Inspect hydraulic components for leaks or wear
- Check the cutting edge for wear

CAUTION

Do not let the cutting edges wear closer than 1/2 to 3/8 inch to the bottom of the moldboard.

- Check skid shoes for wear and replace the skid shoes when the average thickness is 1/4 inch
- Inspect curb shoes for wear, replace if necessary

4.4 Annual Service Procedures

- Protect exposed cylinder rods with a thin film of grease during storage
- Cover all quick couplers with the appropriate plugs and caps
- Prime and paint all exposed metal surfaces
- Drain and flush hydraulic system, if so equipped, and clean the tank and filter screen
- Refill with high grade hydraulic oil
- Change the filter every 500 hours or annually, whichever comes first

5. FLUIDS/LUBRICANTS

CAUTION

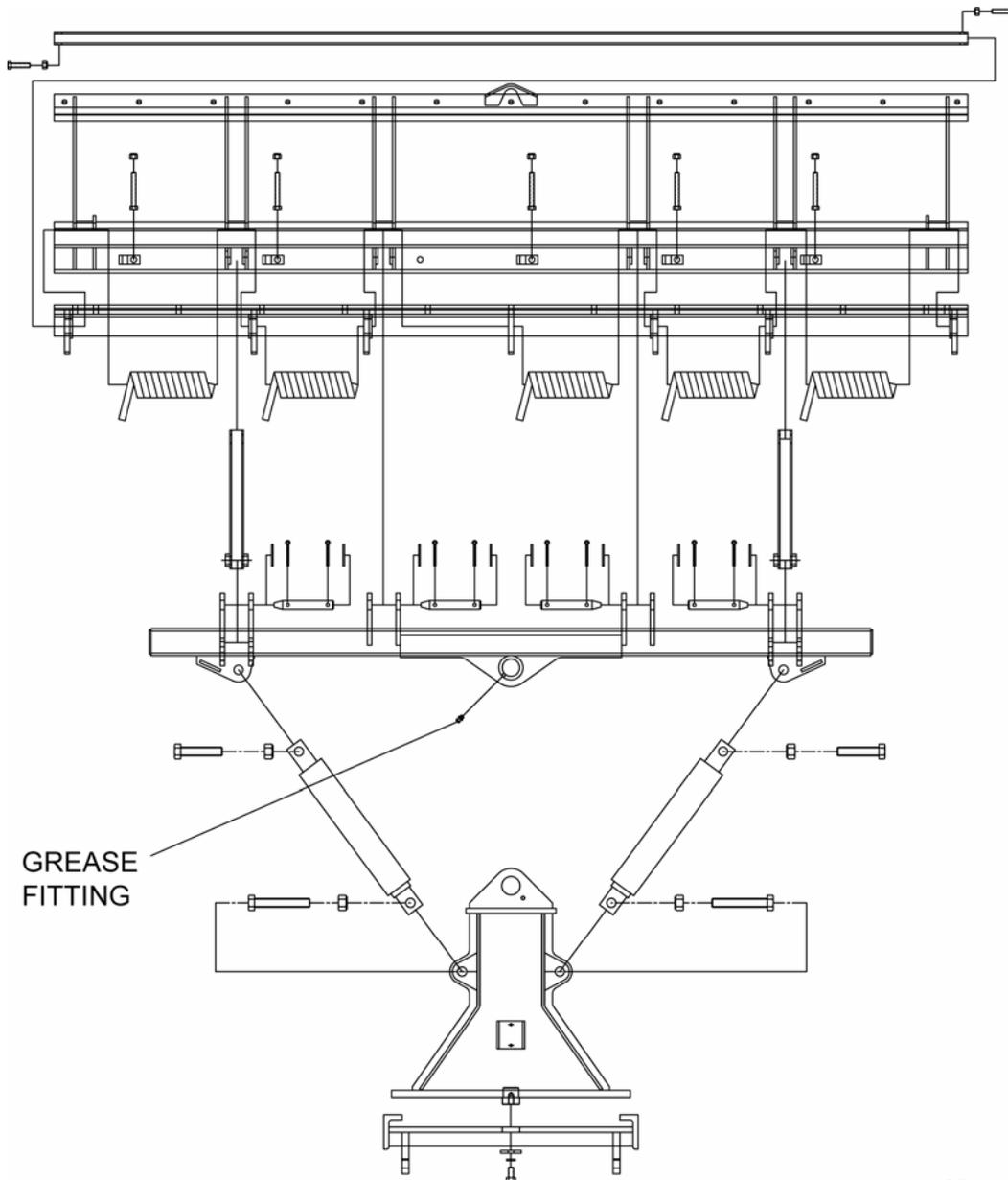
The use of unapproved alternate lubricants/fluids may cause serious damage and can void warranty.

Table 1. Fluids and Lubricants

Description	Fluid	Qty
Hitch Pivots	Extreme Pressure Grease	AR
Caster Wheel	Extreme Pressure Grease	AR
Moldboard Pivots	Extreme Pressure Grease	AR

5.1 Grease Points

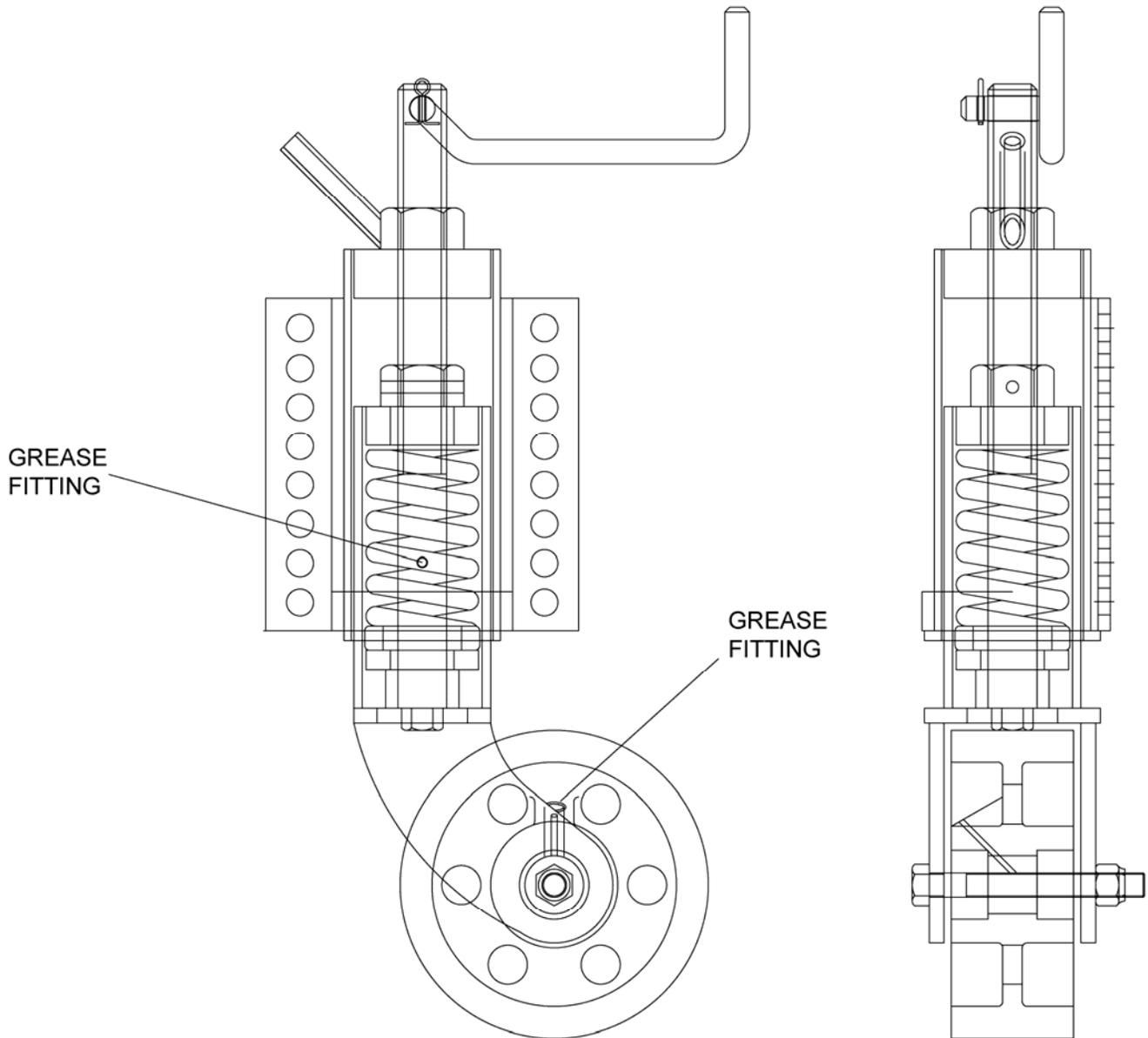
Figure 2. Truss Frame Weldment Grease Point



GREASE
FITTING

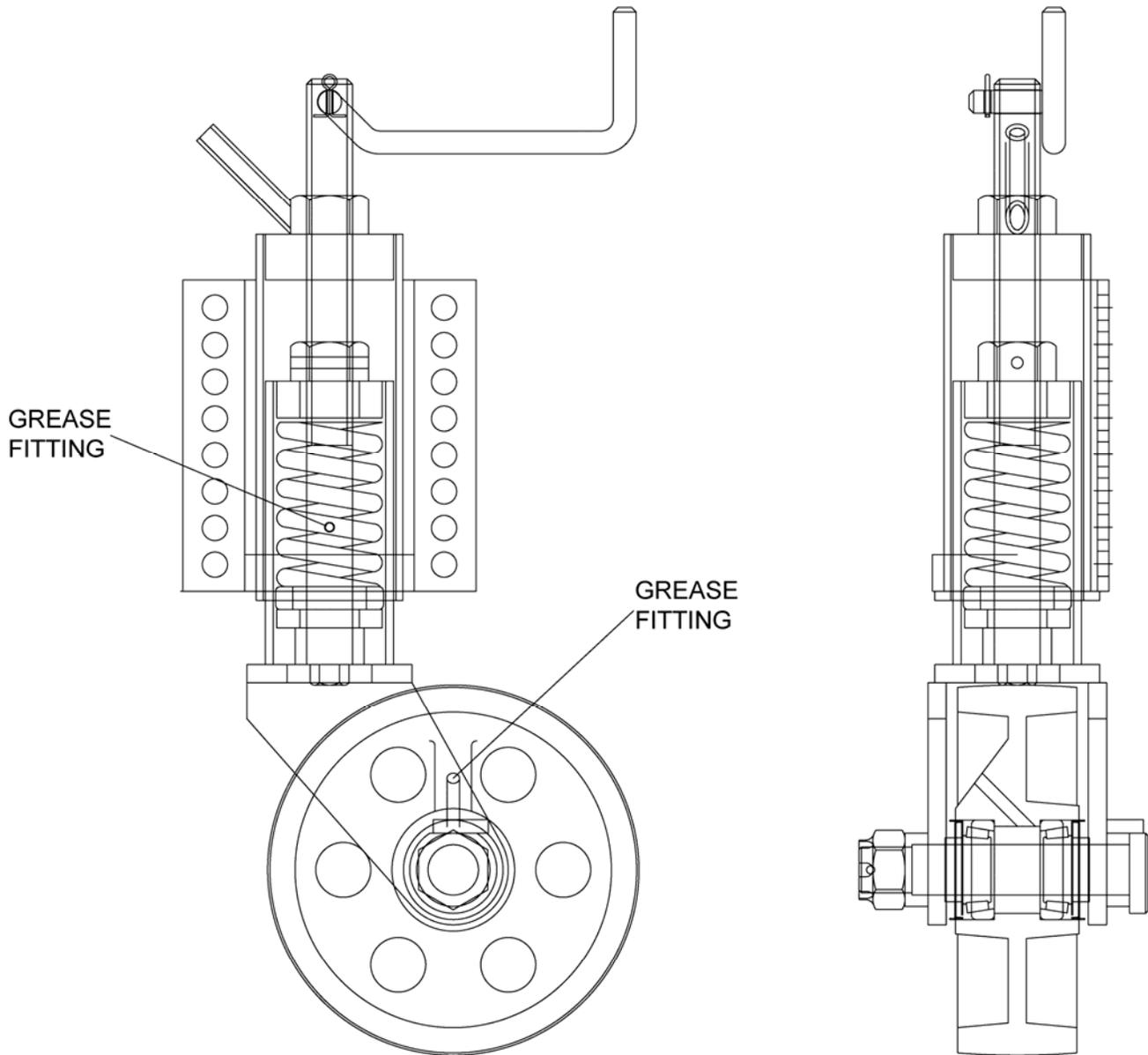
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Figure 3. 8" Caster Assembly Grease Points



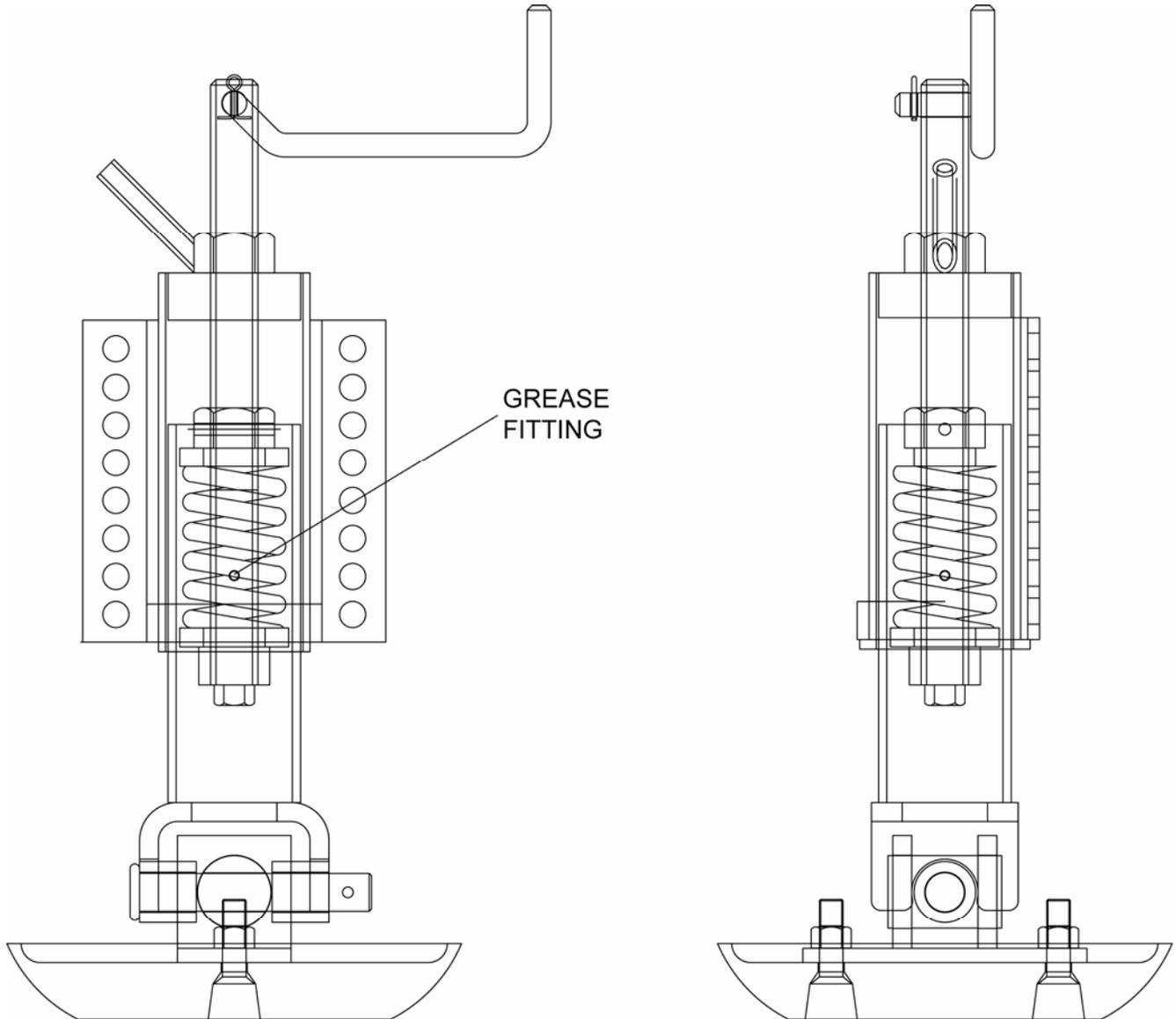
2A-00267_GP
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Rev E

Figure 4. 10" Caster Assembly Grease Points



2A-03086-001_GP
04-26-1969
Rev D

Figure 5. Mushroom Shoe Grease Points



2A-00244_GP
07-31-1962
Rev F

6. CLEAN UP AND STORAGE

6.1 Clean Up

For maintaining minimum maintenance operations, this plow should be thoroughly washed every two to three days during the operating season. Hose the unit down under pressure to free all sticky and frozen material.

It is important that the plow be thoroughly cleaned at the end of each operating season. All service procedures listed in this section should be closely followed.

6.2 Storage

Connect the male and female quick connect couplers before storing the plow to prevent dirt from entering the hydraulic system.

For truck hitch storage information refer to the appropriate truck hitch manual.

7. WARRANTY POLICY

7.1 Section 1 - Definition of Warranty Policy

Wausau Equipment Company, Inc. warrants its products to be free of defects in material and workmanship under normal use and service for a period of one (1) year from the date of final acceptance.

7.2 Section 2 - Coverage

This warranty covers all products sold by Wausau Equipment Company, Inc.

7.3 Section 3 – Obligations of Wausau Equipment Company, Inc.

Wausau Equipment Company's obligation under this warranty is limited to repairing and replacing, at Wausau Equipment Company's option, any parts, which prove defective. This warranty does not cover travel time, mileage, out-of-pocket expenses, or other related expenses to repair Wausau Equipment Company's products unless approved in writing. The warranty also does not cover "premium time" incurred by the customer.

This warranty does not apply to any product, which has been subjected to misuse, negligence, or operation not in accordance with written operating instructions.

Wausau Equipment Company, Inc. accepts no responsibility for unauthorized repairs or modifications. All modifications must be approved in writing by our Service or Engineering departments during the warranty period.

7.4 Section 4 - Procedures for Filing Warranty Claims

The following procedures for filing a warranty claim must be followed exactly, or the warranty claim will be deemed void.

- A. Any claim for parts and labor exceeding \$500.00 will require an ADVANCE WARRANTY AUTHORIZATION NUMBER, to be assigned by Wausau Equipment Company's Service department. This number, along with Wausau Equipment Company's authorization will be documented on the ADVANCE WARRANTY AUTHORIZATION FORM. A copy of this form will be forwarded to the customer and will serve as a limited agreement until a warranty claim has been filed, approved and processed. Wausau Equipment Company, Inc. accepts no responsibility and will not make reimbursements for repairs made prior to the claimant's receipt of this form.
- B. The ADVANCE WARRANTY AUTHORIZATION FORM will also specify a maximum dollar limit for authorized parts and labor. Wausau Equipment Company, Inc. accepts no responsibility and will not make reimbursements for repairs, which exceed the maximum authorized dollar limit on this form.
- C. All warranty claims must be submitted to Wausau Equipment Company, Inc. on Wausau Equipment Company's standard WARRANTY CLAIM FORM. Wausau Equipment Company, Inc. accepts no responsibility and will not make reimbursements for claims, which are not submitted on Wausau Equipment Company's standard form. Claim forms which are incomplete will not be processed.

Warranty Continued:

- D. All claims for warranty must be received by us within 30 days of completion of work or authorization. Claims made later than 30 days after warranty expiration will not be honored. Wausau Equipment Company, Inc. will process warranty claims within 30 days after receipt of Wausau Equipment Company's standard WARRANTY CLAIM FORM, or within five (5) working days after Wausau Equipment Company, Inc. has been reimbursed from a third party vendor, if applicable, whichever is later.
- E. WARRANTY CLAIM FORMS SUBMITTED WILL BE REVIEWED BY WAUSAU EQUIPMENT COMPANY'S SERVICE DEPARTMENT. UPON AUTHORIZATION OF THE WARRANTY CLAIM FORM BY WAUSAU EQUIPMENT COMPANY'S SERVICE DEPARTMENT, A CREDIT MEMO WILL BE ISSUED AND APPLIED AGAINST CURRENT OUTSTANDING INVOICES OR, IF THERE ARE NO CURRENT OUTSTANDING INVOICES, A CHECK WILL BE ISSUED FOR THE APPROVED WARRANTY CLAIM.

A WARRANTY CLAIM SUBMITTED TO WAUSAU EQUIPMENT COMPANY, INC. WITHIN THE REQUIRED TIME FRAME IS AN APPLICATION FOR WARRANTY REIMBURSEMENT. A PENDING POTENTIAL WARRANTY CLAIM DOES NOT, UNDER ANY CIRCUMSTANCES, PRECLUDE PAYMENT OF THE INVOICE IN FULL WHEN DUE. ANY WARRANTY CLAIM DEDUCTED FROM A PAYMENT PRIOR TO THE ISSUANCE OF A CREDIT MEMO WILL DEEM THE WARRANTY CLAIM VOID, AND FULL PAYMENT WILL BE DEMANDED.

IF ANY PORTION OF A CUSTOMER'S ACCOUNT BALANCE IS PAST DUE, WARRANTY CLAIMS WILL NOT BE HONORED, NOR SHALL THE CUSTOMER RECEIVE SERVICE OR SUPPORT OF ANY KIND UNTIL ALL PAST DUE BALANCES HAVE BEEN PAID.

7.5 Section 5 - Other

At the discretion of Wausau Equipment Company, Inc., defective parts must be held for inspection by our field personnel, or shipped prepaid to Wausau Equipment Company in New Berlin, Wisconsin. Claims for parts must be accompanied by a copy of the original invoice. Any claims against Wausau Equipment Company, Inc. for shipment shortages shall be deemed waived unless made in writing by the purchaser within ten (10) days of shipment from the factory. Such claims shall be submitted in suitable form and detail to enable Wausau Equipment Company to file a claim with the carrier, if appropriate. Wausau Equipment Company's responsibility of shipment ceases upon delivery to a carrier and any claims for delay or damages known to occur thereafter shall be made by the dealer/customer direct to the carrier.

THIS IS THE ONLY WARRANTY GIVEN WITH THE PURCHASE OF AN SEE PRODUCT. ANY WARRANTIES IMPLIED BY LAW ARE LIMITED TO 12 MONTHS FROM THE DATE OF INITIAL OPERATION. SEE NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR THEM ANY OTHER LIABILITY IN CONNECTION WITH SUCH PRODUCTS. NO PAYMENT OR OTHER COMPENSATIONS WILL BE MADE FOR INDIRECT OR CONSEQUENTIAL DAMAGES SUCH AS DAMAGE OR INJURY TO PERSON OR PROPERTY OR LOSS OF REVENUE WHICH MIGHT BE PAID, OR OTHER COMMERCIAL LOSSES INCURRED DUE TO THE REPRESENTATION OF THIS WARRANTY, INCURRED OR SUSTAINED BY REASON OF THE FAILURE OF ANY PART OF ASSEMBLY WHICH MIGHT BE REPAIRED OR REPLACED IN ACCORDANCE WITH THE TERMS OF THIS WARRANTY. FURTHERMORE, THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED OR OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSES AND OF ANY NON-CONTRACTUAL LIABILITIES, INCLUDING PRODUCT LIABILITIES BASED UPON NEGLIGENCE OR STRICT LIABILITY.