



INSTALLATION
OPERATION
MAINTENANCE
MANUAL
FOR
MODEL HR 1000 PP
AUTOMATIC COVERING SYSTEM

ATTENTION DISTRIBUTOR: DO NOT DISCARD.
PLEASE GIVE THIS MANUAL TO THE CUSTOMER
WHEN THE UNIT IS DELIVERED.

REVISED 01/24/2018

HR1000PP SYSTEM INSTALLATION

Pioneer's HR1000 system provides an easy-to-use, economical solution for quick, secure covering of loads. The HR1000 is a semi-automatic, armless tarping system with a hydraulic gantry. To operate, the driver simply raises the gantry, flips the rope above the container, walks to the rear of the truck and pulls the tarp over the load. He then secures the rope to the tie-down cleat and lowers the gantry.

Applications: Single axle roll-off cable hoists and hook hoists

Container style/size: Up to 16 foot containers

Standard tarp: 9' wide heavy duty mesh

MAINTENANCE TIPS

1. Periodically apply a spray lubricant such as WD-40 to the bearings.
2. Replace any worn or broken parts immediately.
3. Check all fittings and connections weekly. Correct as required.
4. Apply a dry film lubricant (Dry Moly) to the telescopic Gantry legs weekly.

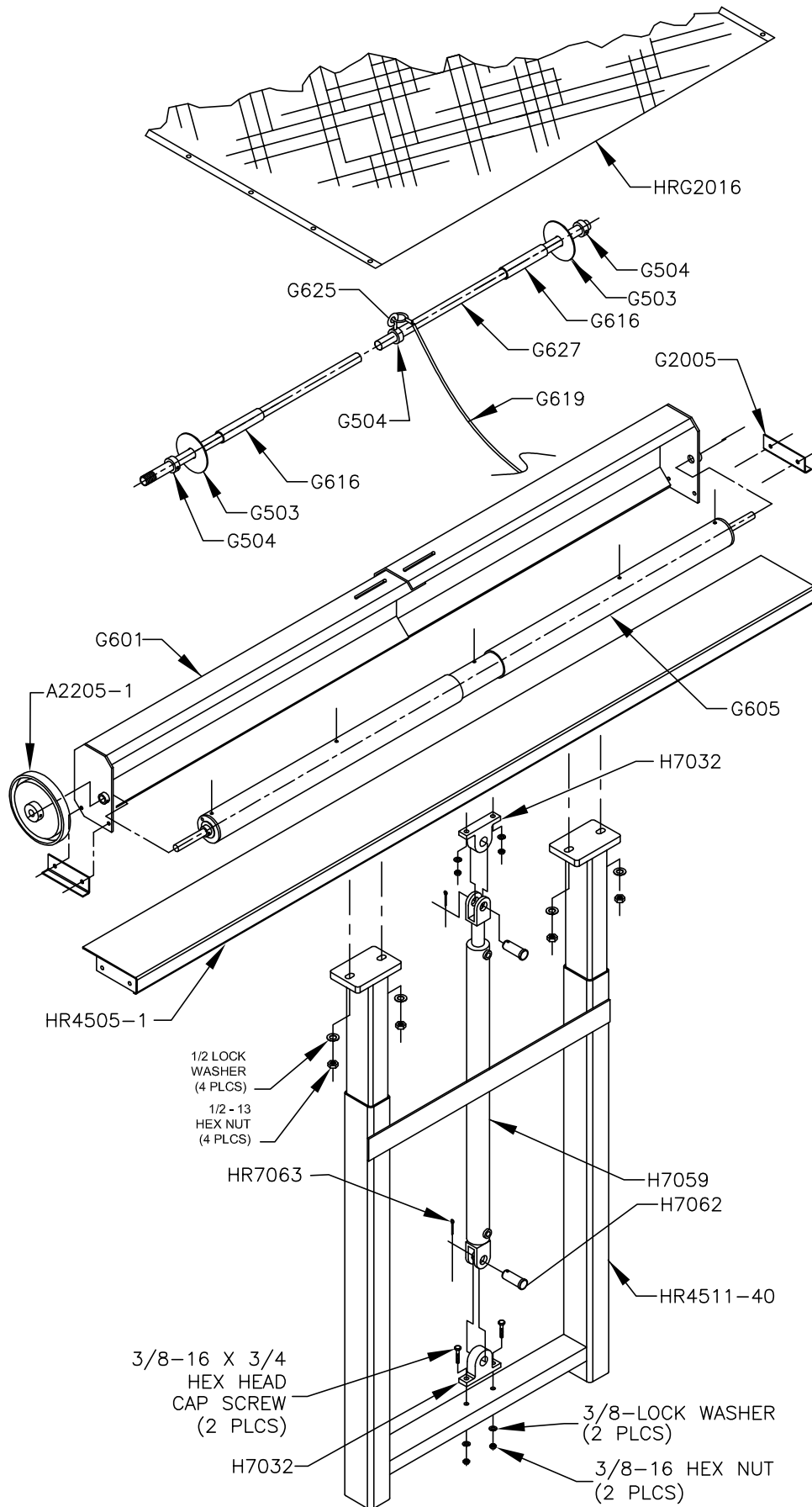
TIPS FOR THE OPERATOR

1. Keep Hands clear of any moving parts.
2. Pay attention to safety decals.
3. Release the valve when the Gantry has been fully extended or retracted.

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/10/2007	P.DOAN
B	REPOSITIONED GANTRY	01/24/2018	ARP



Pioneer, A Wastequip Co.		
North Oxford, MA 01537		
HR1000PP SCHEMATIC		
PART NO.	HR1000PP SCHEMATIC	DATE
SCALE: NTS	DRW. BY: P.DOAN	4/10/07

HR1000PP SYSTEM INSTALLATION

HR 1000 PP

TARPING SYSTEM

INSTALLATION INSTRUCTIONS

Read and understand these instructions completely before beginning the installation. Use these instructions with the drawings included. Unpack, identify and familiarize yourself with the various components of the unit.

1. MOUNTING THE GANTRY AND ROLL BASE ASSEMBLY

Pick a suitable place on the chassis of the truck directly behind the cab to mount the *Gantry* and *Roll Base Assembly*. Clear away or re-route any hoses, cable, etc. that may interfere with mounting the *Gantry* to the chassis. Utilize brackets, etc. that are already bolted to the chassis and then weld a piece of channel or tube to these brackets across the width of the chassis. Mount the gantry on top of this piece. In either case, allow a minimum of 4-5" between the forward portion of the *Gantry* legs and the rear of the cab. This will provide clearance for the *Roll Base/Housing* as it moves up and down. Square the *Gantry* to the hoist and level from side to side as well as being plumb vertically. A good way to make certain the *Gantry* is square to the hoist is to clamp a straightedge across the front of the hoist and then measure from this to the *Gantry* legs.

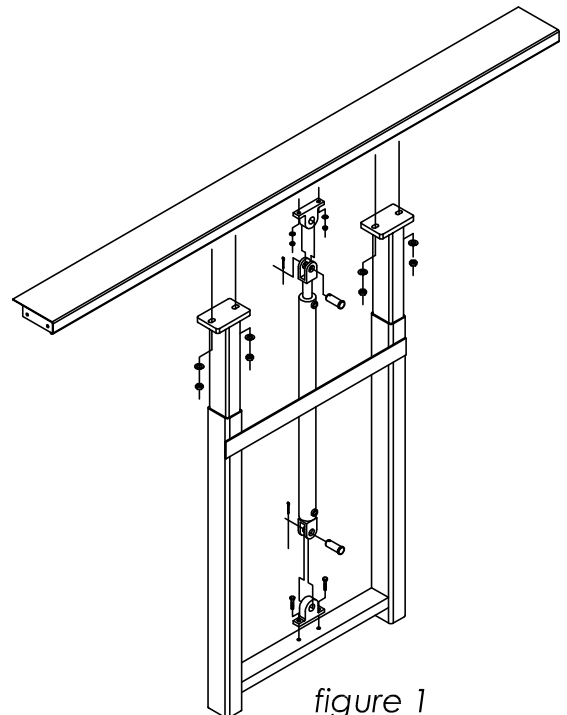
NOTE: Do not drill into the chassis top and bottom flanges or any closer to the flanges than the truck manufacturer did.

Once the *Gantry* is located and welded securely at the bottom, add front to rear gussets to stabilize the *Gantry* and strengthen the mounting.

Place the *Roll Base* on top of the *Gantry* and install using four 1/2"-13 hex nuts and lock washers provided. Install the *Cylinder* onto the clevis eye pads on the *Gantry* and *Roll Base* using the clevis pins and cotters provided. Make sure the rounded edge of the *Roll Base* is facing the rear of the truck.

NOTE: The ports on the cylinder should face to the left or drivers side when viewed from the rear.

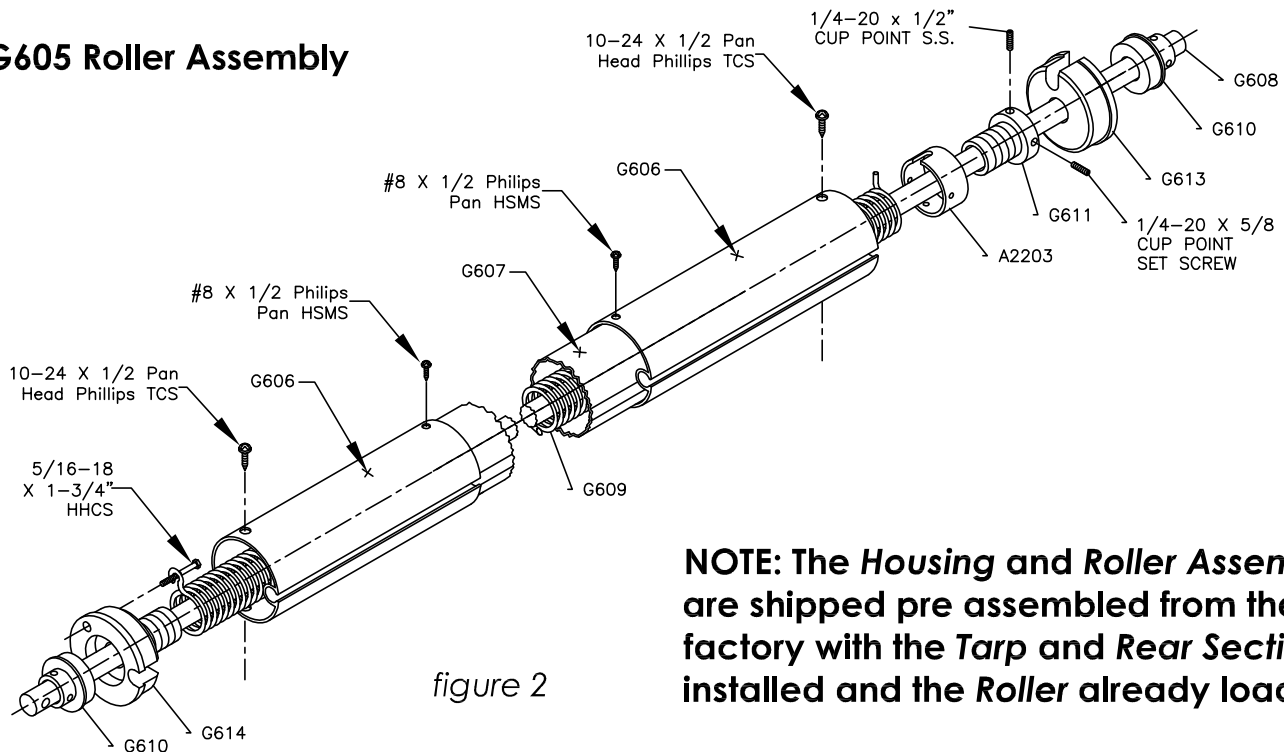
The exhaust stack may interfere with the *Roll Base* as it travels upward, correct as necessary by installing elbows etc. into the stack.



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Place the entire *Roller/Housing Assembly* on top of the *Roll Base* and center. Attach the two mounting angles to the outside of the housing using the 3/8 hardware provided, putting the bolt heads on the inside of the housing. Center the housing on top of the roll base and weld the mounting angles to the roll base.

G605 Roller Assembly



NOTE: The *Housing and Roller Assembly* are shipped pre assembled from the factory with the *Tarp and Rear Section* installed and the *Roller* already loaded.

2. INSTALLING THE POWER PACK

NOTE: See *Hydraulic Schematics* on Page 5.

NOTE: Filtration of 30 micron or better must be used with these components.

Pick a suitable place on the drivers' side of the truck and install the power pack vertically. Make the hydraulic connections to the gantry lift cylinder and make the electrical connections from the power pack to the battery (12 volts D.C.) Positive (+) from the solenoid to the positive (+) side of the battery and negative (-) from the base plate to the negative (-) side of the battery.

Fill the power pack with Dexron ATF and operate the valve so the gantry goes up and down smoothly. You may have to do this a few times in order to bleed all the air from the cylinder and hydraulic lines.

**NOTE: Use only pipe thread sealant such as RectorSeal on pipe threads.
DO NOT USE TEFLON TAPE!!!**

HR1000PP SYSTEM INSTALLATION

Pioneer, A Wastequip Co.			
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HYDRAULIC SCHEMATIC FOR HR1000 PP			
PART NO. HR1000PP HYD. SCHEMATIC	DATE	DRW. BY: P.DOAN	
SCALE:	4-12-07		

Diagram illustrating the HR1000PP System Installation, showing the hydraulic pump and valve assembly connected to various components.

Key components and connections labeled:

- H7048**: Hose connecting the pump/valve assembly to the cylinder.
- HR4562A**: Fitting connecting the hose to the cylinder.
- H7059**: Hydraulic cylinder.
- H7049**: Hose connecting the pump/valve assembly to the cylinder.
- HR4563**: Fitting connecting the hose to the cylinder.
- TO BATTERY (-)**: Connection to the negative terminal of the battery.
- 1AWGWC**: Cable connecting the pump/valve assembly to the battery.
- TO BATTERY (+)**: Connection to the positive terminal of the battery.
- HR4553 (2 PLCS)**: Plug connecting the cable to the battery.
- HR1525**: Component connected to the pump/valve assembly.

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Pioneer, A Wastequip Co.

North Oxford, MA 01537

HYDRAULIC SCHEMATIC
FOR HR1000 PP

PART NO.	HR1000PP	HYD.	SCHEMATIC	DATE
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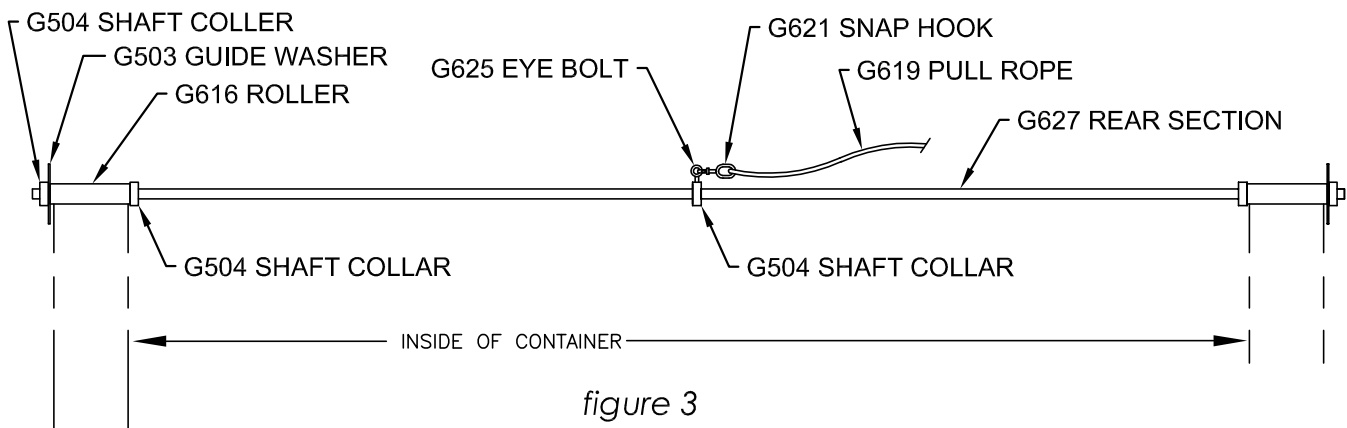
HR1000PP SYSTEM INSTALLATION

3. INSTALLING THE REAR SECTION & PULL ROPE

Attach the Pull Rope with the Snap Hook to the Eye Bolt on the Rear Section and pull the tarp out over the container. Tie off the pull rope to the rear of the container.

Install **each end** of the Rear Section in the following sequence: (see detail in *figure 3* below)

- (ONE) G 504 Shaft Collar
- (ONE) G 616 Roller (may have to be trimmed, should be approx. 1/2" longer than width of top rail).
- (ONE) G 503 Guide Washer
- (ONE) G 504 Shaft Collar



Align these pieces on the *Rear Section* so the G503 Guide Washer is on the outside of the container and the rollers line up with the top rail. Trim the rear section if necessary.

The roller as shipped from the factory already has 25 winds on the roller, which should be adequate to roll the tarp up properly.

If the tarp does not wind up fully you can add more winds to the roller as follows: Install the A2205-1 *Winding Disk* on the drivers' side of the roller shaft. Loosen the setscrew on the right side collar. Holding onto the winding disk securely, carefully remove the 5/16 Bolt and Nut from the left side shaft collar. Turn the disk CLOCKWISE as viewed from the drivers' side 2-3 revolutions and re-insert the bolt, attach the locknut and tighten.

IMPORTANT: DO NOT EXCEED 35 WINDS.

Tighten the setscrew in the shaft collar on the right side of the housing and remove the disk. Store the winding disk in a secure location.

REMEMBER: ADDING MORE WINDS WILL MAKE IT HARDER TO PULL THE TARP OVER THE LOAD. YOU ONLY WANT ENOUGH TENSION ON THE ROLLER TO SMOOTHLY WIND THE TARP ONTO THE ROLLER

Install the rope hooks close to or on the gantry to store the rope when the tarp is not being used.

HR1000PP SYSTEM INSTALLATION

4. OPERATING THE UNIT

TO COVER

1. Untie the Pull Rope from the Rope Hooks on the side of the truck.
2. Raise the gantry to clear the load.
3. Walk the Pull Rope to the rear of the truck and flip over the container.
4. Pull the tarp out over the container, keeping a firm grip on the rope at all times.
5. Secure the Pull Rope to the Container and tie securely.
6. Lower the gantry down all the way.

TO UNCOVER

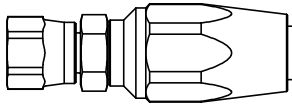
1. Raise the gantry up to clear the load.
2. Untie the Pull Rope from the Container.
3. Slowly allow the Pull Rope to slide through your hands, allowing the tarp to roll onto the roller.
4. Lower the gantry to its rest position.
5. Store the Pull Rope on the Rope Hooks on the side of the truck. Fasten securely.

CAUTION: TO PREVENT DAMAGE TO THE TARPING SYSTEM, BE SURE TO UNCOVER THE LOAD BEFORE DUMPING OR EMPTYING THE BODY.

HYDRAULIC FITTING CHART

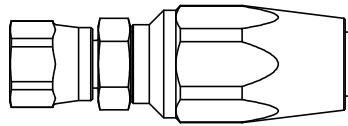
DRAWINGS NOT TO SCALE
FOR REFERENCE ONLY

Note: -4 Hose Fitting and
Swivel are Separate Items

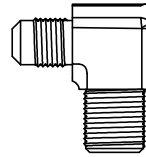


HR4685
Reusable Fitting for -4 Hose
w/ -6 JIC Female Swivel

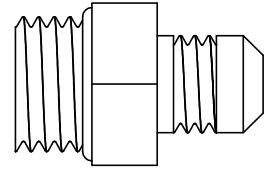
Note: -8 Hose Fitting and
Swivel are Separate Items



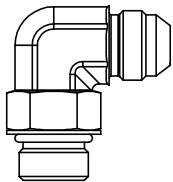
HR4721
Reusable Fitting for -8 Hose
w/ -8 JIC Female Swivel



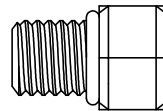
H7048
3/8 NPT M x -6 JIC M 90 DEG. ELL



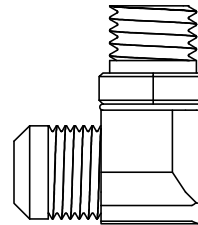
HR1505
-8 SAE M x -6 JIC M Adapter



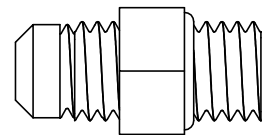
HR2021
-8 SAE M x -8 JIC M ELL



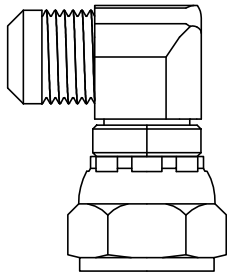
HR2057
-4 SAE Male Plug



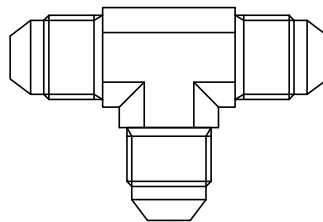
HR4681
-6 SAE M x -6 JIC M 90 Deg. ELL



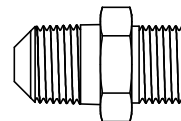
HR4682
-6 SAE M x -6 JIC M Straight
Adapter



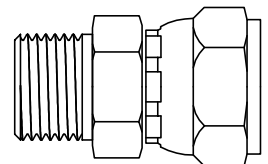
HR4683
-6 JIC M x -6 JIC F 90 Deg. ELL



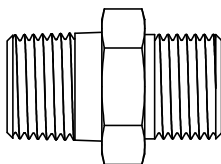
HR4684
-6 JIC M x -6 JIC M x -6 JIC M TEE



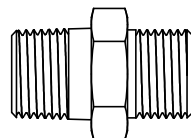
HR4716
1/4 NPT M x 6-JIC M Adapter



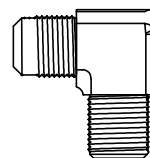
HR4717
1/4 NPT M x -6 JIC F Adapter



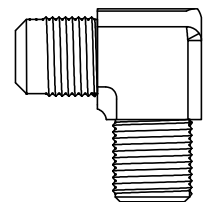
HR4722
1/2in. NPT M x -8 JIC M Adapter



HR4729
-6 SAE M x -8 JIC M ADAPTER



HR4553
1/4 NPTx-6 JIC 90 Deg. ELL



HR4693
1/2 NPT MALE x -8 JIC 90 Deg ELL

NOTES

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LEGAL



WARNING: In order to prevent damage, the tarp must always be left in the uncovered position when the truck is not in use for a period of more than 2 consecutive hours.



WARNING: All repairs and parts replacement should be undertaken by qualified technicians. The buyer assumes all risks and liabilities arising out of his or her repairs, modifications, or parts replacement on the original product.



WARNING: Inspect the tarp system before each use for fit, wear and damage. Check tarp system at regular intervals during use. Replace parts at first sign of damage or material wear. If you find anything upon inspection that cannot be corrected, do not use as severe injury could result.



WARNING: Do not operate vehicle until you are certain that the tarp system is properly installed and can be safely operated.



WARNING: Do not operate the tarping system while the vehicle is in motion and make sure the vehicle is clear of any obstructions (such as overhead wires).



CAUTION: Any piece of equipment can be dangerous, even deadly, if not used properly. You are responsible for the proper use of this product and the safe operation of any accessories or related equipment and vehicles. Common sense and caution cannot be built into the equipment and must be supplied by the operator.



CAUTION: If for any reason you do not understand all portions of these instructions and warnings, contact the company at the number listed herein for assistance. Do not use, or allow others to use, the tarp system until you (and others) fully understand its operation, these instructions and warnings. Manufacturer assumes no liability or responsibility for injury or damage caused by improper use or failure to read and follow all instructions and warnings.

HR1000PP SYSTEM INSTALLATION

SPECIAL NOTE

NOT MANUFACTURED OR INTENDED FOR USE WITH HAZARDOUS WASTE

Pioneer, A Wastequip Company will not be held responsible for damages to, or caused by their container covering systems when they have not been installed or used in the manner prescribed in this manual. Any modifications to the unit or deviations from the procedures outlined in this manual must be authorized in writing by Pioneer, A Wastequip Company.

WARRANTY

Pioneer, A Wastequip Company warrants this automatic container covering system for a period of twelve (12) months, against proven defective parts and workmanship. Excluded from this warranty is the fabric tarp. Our liability is limited to the replacement parts and does not include freight, labor or lost time due to or in connection with the failure of the parts. Any part will be replaced under the conditions of this warranty when Pioneer, A Wastequip Company has authorized a return and has received satisfactory evidence that the part(s) is(are) defective.