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HR2000PTO Automatic Covering System


Installation Manual


 **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.

ATTENTION DISTRIBUTOR: DO NOT DISCARD.

Please give this manual to the customer when the unit is delivered.

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.

Pick a suitable place on the chassis of the truck directly behind the cab to mount the **GANTRY** and **WINDSCREEN / ROLL ASSEMBLY**. Clear away or re-route any hoses, cable, etc. that may interfere with mounting the **GANTRY** to the chassis.

Chassis mounting angles part number **HR 4519** are included to facilitate mounting the **Gantry**. Chassis mounting angles are to be bolted to the chassis, be sure that the right and left mounting angles are square and level to each other. Weld the chassis mounting angles to the **GANTRY** base, be sure that the chassis mounting angles are centered on the **GANTRY** base. Allow a minimum of 4-5" between the forward portion of the **GANTRY BASE** and the rear of the cab. This will provide clearance for the **WINDSCREEN / ROLLER ASSEMBLY** 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** BASE.

When drilling into the chassis rails, **DO NOT DRILL INTO THE CHASSIS FLANGE, OR ANY CLOSER TO THE FLANGE THAN THE TRUCK MANUFACTURER DID.**

Once the **GANTRY** is located, fastened, and welded securely, add front and rear gussets to stabilize the **GANTRY** and strengthen the mounting.

Place the **WINDSCREEN / ROLLER** assembly on top of the **GANTRY** and install using 4 – 1/2-13 hex nuts and lock washers provided. Install the switch mounting plate **HR2048** on the drivers' side (inside) utilizing the windscreen bolt, nut and lock washer, refer to installation drawing for location. Install the cylinder into the cylinder cup on the **WINDSCREEN / ROLLER** assembly, and secure with the hitch pin and hairpin cotter.

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 **WINDSCREEN / ROLLER** assembly as it travels upward, correct as necessary by installing elbows etc. into the stack.

NOTE: THE WINDSCREEN / ROLLER ASSEMBLY, ARE SHIPPED PRE-ASSEMBLED FROM THE FACTORY WITH THE TARP AND REAR SECTION INSTALLED, and THE ROLLER ALREADY LOADED.

Install the flow diverter **HR2055-12** and control valve **HR4542A-1** between the pump and hoist hydraulics on standard roll-off applications. The Diverter's PRV must be set 100 PSI higher than the hoist. On Hook-lifts mount the gantry hydraulics downstream of the hook-lift hydraulic system. The Diverter's PRV can be set to match the pressure required by the Gantry Cylinder. Refer to drawings HR2055 and the Hydraulic Schematics to identify port configurations and other pertinent information. An option for mounting the diverter has been provided on the gantry (drivers') side plate, there you will find two (2) corresponding holes that may be utilized to facilitate mounting the diverter. Pick a suitable location for mounting the control valve.

Put a typical container on the truck.

Attach the rope pigtail with the snap hook to the steel ring on the tarp, attach the deployment pull rope to the other end of the rope pigtail. Raise the gantry fully, and then pull the tarp out over the container. Either secure the rope pigtail, or tie off the deployment rope to the rear of the container.

The roller as shipped from the factory, already has 33 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 HR4780 WINDING DISK on the drivers' side of the roller shaft. Loosen the set screws on both the right and left side collars.

Turn the WINDING DISK COUNTER-CLOCKWISE as viewed from the drivers' side 2-3 revolutions, tighten the shaft collar set screws, and remove the disk. **DO NOT EXCEED 38 WINDS.**

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.

TO COVER

1. Snap the Deployment Rope to the Rope Pigtail.
2. Raise the Gantry to clear the load.
3. Walk the Deployment Rope to the rear of the truck and flip over the container.
4. Pull the Tarp out over the container and fasten securely.
5. Lower the Gantry down all the way.

TO UNCOVER

1. Raise the Gantry up to clear load.

2. Unclip Rope Pigtail from the container and attach the Deployment Rope to the Pigtail.
3. Slowly allow the Deployment rope to slide through your hands, allowing the Tarp to roll onto the Roller.
4. Lower the Gantry to its rest position.
5. Remove Deployment Rope for storage and clip Pigtail securely.

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

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