

Operating & Maintenance Instructions for 299-11FW

Product Safety



Important:

Before operating this equipment, read & study this manual thoroughly. Familiarity with the proper use of this product is essential to safe operation. In addition, the following points should be adhered to in order to ensure the safety of equipment and personnel:

- All personnel who may be expected to use this equipment must be thoroughly trained in its safe and proper use.
- Before flowing water from this device, check that all personnel (fire service and civilian) are out of the stream path. Also, check to make sure stream direction will not cause avoidable property damage.
- Become thoroughly familiar with the hydraulic characteristics of this equipment, and the pumping system used to supply it. To produce effective fire streams operating personnel must be properly trained.
- After each use, and on a scheduled basis, inspect equipment per instructions.
- Always open water valve(s) supplying this equipment slowly, so that hose lines fill slowly, thus preventing possible water hammer occurrence.
- Never exceed 750 GPM flow.
- Always engage left/right & up/down locks when un-manned or not in use.
- Never attempt to move the cart while it is flowing or under pressure.
- Always engage wheel locks before flowing water.

Master streams are extremely powerful. Therefore, great care must be taken in directing such streams to avoid injury to personnel and unwanted damage to property.

Setup

- Install nozzle on monitor discharge and secure with spanner wrench.
- Install T-Handle and secure with clevis pin.
- Install hose racks.
 - Remove the 3 cotter pins and castle nuts from the left side.
 - Install a hose rack with shelf of the rack on the monitor side. Place the holes in the bottom of the 3 support brackets over the threaded shafts with the front and rear brackets on the monitor side and the center bracket on the tire side. Replace the castle nuts and secure with cotter pins. Reverse castle nuts if required to install cotter pins.
 - Repeat for right side.
 - Mount and secure hose with bungee cords (supplied by others).



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Operating Instructions

- Position the 299-11FW in suitable location to obtain the maximum effectiveness of the nozzles capabilities. The monitor section should be pointed at the target when positioned in the center of its 90 degree horizontal range of motion. Place the T-Handle on the ground and tighten the wheel locks to assure stability.
- Place the monitor in the approximate horizontal and vertical positions required by turning both twist lock mechanisms counterclockwise just enough to allow movement of the monitor. Use the tiller handle to place the monitor in the desired position securely re-tighten both locks by turning them clockwise.
- Attach and tighten the inlet hose connections. Charge the inlet(s) at reduced pressure and begin gradually increasing to desired pressure. Monitor inlet pressure can be obtained by reading pressure gauge on monitor manifold. Remember that all nozzle flow data is based on pressure at nozzle inlet.
- Maximum flow on the 299-11FW is 750 GPM @ 100 PSI nozzle pressure. The loss through the monitor section at 750 GPM is 25 PSI. A reading of 125 PSI (134 psi if using a stream shaper) on the manifold pressure gauge will result in a nozzle inlet pressure of 100 PSI when flowing 750 GPM.
- Once system is flowing at the desired pressure/volume, slightly loosen horizontal and vertical locks in order to make final adjustments on flow direction using the tiller handle. Then securely tighten both locks. Caution; both locks must be locked whenever the monitor's tiller handle is left unattended (flowing or not).
- After use, relieve pressure and drain all water from system.

MAINTENANCE & INSPECTION; The monitor and all related equipment should be inspected regularly and after each use. Careful inspection for damage to the monitor, nozzle, and related equipment is very important.

- Visually inspect cart, monitor, nozzle and related equipment for damaged or missing parts. Repair or replace if needed.
- Check twist lock mechanisms to assure proper operation. Replace if needed.
- Inspect the tires. Maintain 8-12 psi tire pressure. Repair or replace if needed.
- Flow water to check nozzle pattern. If pattern is disrupted, remove nozzle and check for debris lodged between the nozzle stem and body, or in the stream shaper inlet if one is used. Repair or replace if needed.
- During nozzle flow test, inspect monitor swivel joints for leaks. Repair or replace if needed.

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Note: Grease fittings are provided for the up-down and left-right rotation joints, routine greasing should be performed to expel water & other contaminants that can get into the rotation joints. If the monitor is exposed to a high level of radiant heat for a prolonged period, it may be possible for the factory grease to thin and run out of the rotation joints. In such an event, fresh grease should be applied. Use Mobilux EP2 or equivalent. Start at one end of travel range and apply grease through the fitting of each joint until fresh grease comes out the joint. Repeat every 30 degrees throughout the full range of travel on each rotation joint. Wipe off any expelled grease when done.