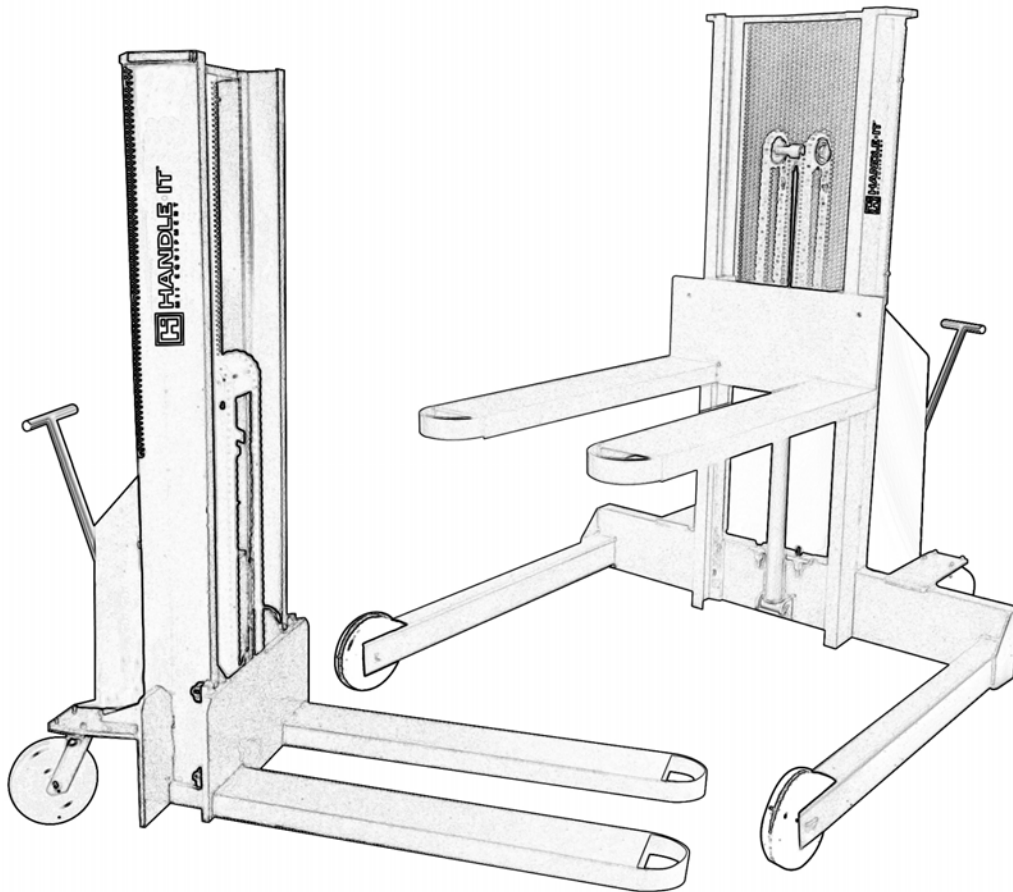




HANDLE-ITTM
M I E Q U I P M E N T

Work Positioners



PO Box 26335 · Milwaukee, WI 53226 · Toll Free 1-800-236-1080 · Fax 414-453-9975



HANDLE-IT™
M I I E Q U I P M E N T

Operation and Maintenance manual for Work Positioners

Introduction	2
Safety	2
Warning	2
Installation	2
Inspection	2
Installing	3
Testing the Lift without a Load.....	3
Operation	3
Operate the Lift.....	4
Maintenance.....	4
Routine Inspection and Maintenance	4
Yearly Maintenance	4
Troubleshooting Maintenance	5
Work Positioner moving slowly or not at all	5
Forks are stuck in the Up Position	5
Forks Raise and Lower Slowly	5
Forks Do Not Raise To Full Extension.....	5
Forks Raise or Lower too Fast or too Slowly	5
Charging the Battery	5

Introduction

This manual attempts to provide all of the information necessary for the safe and proper installation, operation, maintenance and trouble shooting of Handle-It work positioner.

The work positioner series has a nameplate, which provides the load capacity (lbs), serial number, drawing number, and date of manufacturing. Please refer to these numbers when ordering parts, or requesting further information.

Safety

Do not install or operate this work positioner series without carefully reading this manual.

Caution: Your work positioner is equipped with a hydraulic velocity fuse, which will lock up once the flow of oil exceeds 7gpm. This will prevent the load from free falling in the event of hose failure. Inspect and ensure chain and linkages are secure at all times. This should be done on a daily basis.

Warning

- Do not perform any repair or work on work positioner series with the mast or forks are in the raised position.
- All personnel must stand clear of the machine when the mast and forks are in motion.
- Do not put hands or feet under mast or forks when in motion.
- Do not stand, sit or climb work positioner when in operation.
- Do not use on soft, uneven or unstable surfaces.
- Do not exceed load capacity.

Installation

Inspection

Upon receipt of the work positioner, inspect the equipment completely; to determine if there is any shipment damage and the work positioner is complete. Do not use the work positioner if there is any damage. With the unit in the Down position, check the following:

1. Signs of damage especially to the electrical cables, and hydraulic hoses.
2. Check connections for tightness. Is there hydraulic liquid visible?
3. Check the base frame for flatness.
4. Inspect for any bent or damaged metal parts.

Installing

1. your work positioner should be ready to roll when it arrives at your factory or warehouse door please reference note above before operating.
2. Remove the handle shaft from the rest position; ensure that the handle reaches the full range up & down.
3. Check to ensure there are no packing remnants left on moving parts.

Testing The Lift Without Load

1. Before testing the work positioner, clear the area of any loose material or debris. Ensure there are no obstructions. On the control head there are two butterfly switches, by depressing these switches, you can move the unit, and the further down the switch is depressed will determine the rate of speed at which you travel forward and reverse. (Please consult our factory if you have any questions regarding this item.)
2. To operate the up /down commands depress the up button (remember this is a momentary style command when you have released pressure on the button the lift cycle will halt. To lower the unit depresses the down button indicated on the control head this is similar to the up command and will respond accordingly.

STOP: If the work positioner forks do not rise, or there is any operational problem, stop operating the lift immediately. Before continuing, refer to the trouble shooting section of this manual and correct the problem.

3. After raising the work positioner completely, lower the mast. It should move at a slow consistent pace and travel smoothly. If this procedure has been proven successful run the mast to different heights to give you or the operator a good perspective on how the unit operates at various levels.

Operation

In order to operate the work positioner, follow these operating procedures.

1. Read and understand all instructions before operating.
2. Load the work positioner correctly. Never Load off center and ensure while picking partial loads off the unit it is done in an even and uniform manner. Refer to the attached nameplate for capacity information.
3. Place the Load in the center of the forks and against the back plate. As stated ensure it is properly centered and evenly balanced.
4. If the load appears to be unstable or there is a remote chance it may shift reposition it?

Operate The Lift

1. To raise the mast, activate the up “ Push Button Command “ hold the button down until desired height required is achieved. The button is spring-loaded and will automatically return to the closed position when released.
2. To lower the mast activate the down “ Push Button Control “ as mentioned above when the desired height is achieved release and the unit will stop.
3. Stand clear of the mast while it is being raised or lowered, to avoid any possible injury to yourself or others around you.

STOP: Never stand, sit or climb onto the work positioner to avoid any possible injury. If the unit fails to move or exhibits jerky or sudden speed shifts “ Halt its use immediately and have an experienced maintenance person service the unit. Do not operate this unit until all repairs and diagnostics have been completed.

Maintenance

Generally the Handle-It work positioner will require little or no maintenance and should remain trouble free for quite some time to come. However in the event you should experience mechanical failure please review the notes below for reference. Just a reminder a routine inspection and maintenance policy is always a good way to insure this lifting device will give you a trouble free lift for years to come.

Routine Inspection and Maintenance:

Inspection should be performed on a daily basis for general visual inspection and weekly for complete check of the system.

1. With The work positioner in the fully raised position with hydraulics under pressure, check for leaks. Inspect all fittings; hoses and related components for tightness, if a leak does occur repair this immediately to avoid damage to the unit or persons operating the unit.
2. Check hydraulic cylinders for leaks. If fluid is draining from the top port of the cylinder (i.e.) where the breather valve is positioned this will require seal replacement. Reference your Serial # for proper replacement part.
3. Check front rollers and casters for signs of damage and replace immediately if they show signs of damage. T
4. Tighten all visible nuts and bolts if required.
5. Ensure all pivot pins and cylinder pins are secure.
6. Bearings on all Handle-It Products are sealed and should require little or no servicing.

Yearly Maintenance:

Oil in the reservoir should be changed at least once a year, or sooner if the oil becomes dark or gritty.

Use Dextron II or equivalent for replacement

Troubleshooting Maintenance

Work positioner Moving Slowly Or Not At All

1. Check for obstructions.
2. Ensure the battery is properly charged
3. Check The Cylinder Fro Leaks
4. Is The work positioner overloaded
5. Check Te Pus Button For Sticking Or Jamming
6. Check 12v Relay Switch, Repair Or Replace
7. Ensure Key Switch Is In The On Position

Forks Are Stuck In The Up Position

1. Velocity Fuse May Be Locked. Release Pressure by engaging the up command, and then close the flow control valve. If your unit has a pressure compensated flow control ensure power to the system is contacting.
2. To release pressure in the velocity fuse depress up button momentary and then release. Try adjusting the flow control valve by turn it to the closed position. If this does not work remove the product form the mast and manually remove the velocity fuse. Please Note Mast must be secured before attempting this operation, this should be used as a last resort.

Forks Raise And Lower Slowly

1. Check valve may be stuck open. If so remove and clean see spec sheet for location.
2. Check for leaking hoses and or fittings
3. Down valve may be stuck open due to dirt. Remove and clean see spec sheet for location.

Forks Do Not Raise To Full Extension

1. Check oil level in the reservoir. Hydraulic oil should be topped off when the mast is in the down position. Oil is added through the filler cap see spec sheet for location
2. Check cylinder stroke, it might be restricted by obstructions.

Forks Raise Or Lower To Fast or Too Slowly

Check the flow controls valve if applicable. This will be located at the pump line out of the hydraulic hose and will link up to your cylinder. Turn the knob clockwise for decreased speed and counter clockwise to increase speed. Remember if it opened too much the velocity fuse will activate and lock the mast in a fixed position.

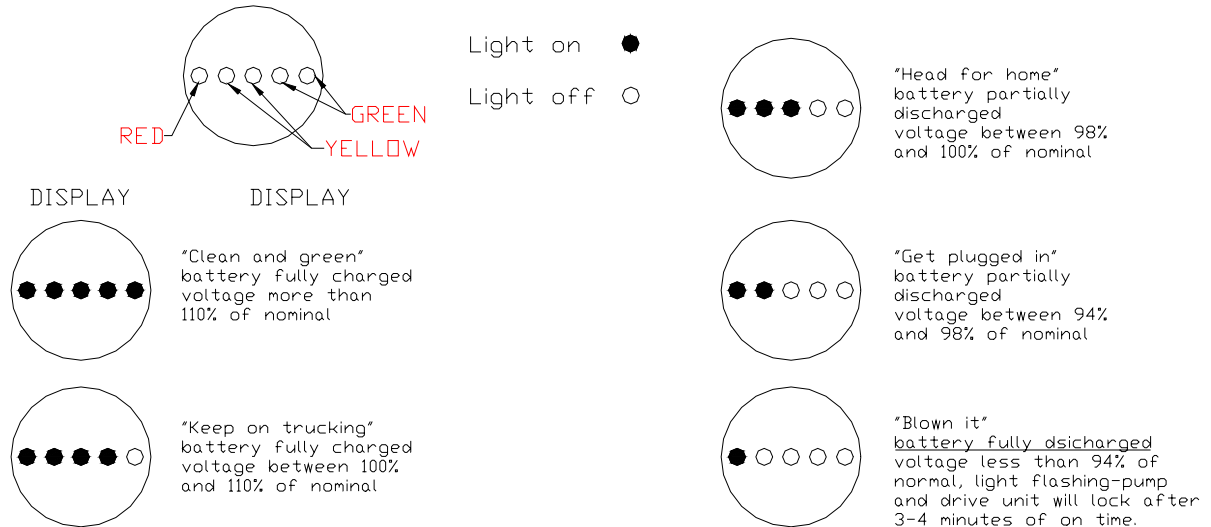
CHARGING THE BATTERY

Your work positioner is equipped with a deep cycle battery, which must be charged properly, and with great caution.

If you purchased your charger with our work positioner you are using a recharge unit designed specifically for this unit.

Your unit comes with either the standard LED indicator, which is built into the charger, or our optional built in LED indicator mounted to the unit.

When the battery is energized or full charge is achieved, the yellow and green lights will flash alternately, to ensure the battery is kept at its peak level. See diagram below:



CAUTION: Do not overcharge your battery. Your work positioner is equipped with a deep cycle battery, which should be 75% discharged before recharging.

When charging your battery, locate your unit in a dry, well-ventilated area. An extension cord should never be used in conjunction with the power cable provided unless absolutely necessary.

Never smoke or allow open flame in the vicinity of the battery.

Never operate the unit while energizing the unit.

When the battery reaches full charge (maximum of 15 hrs) the green LED indicator should be present and the charger's output will be automatically shut down.

Automatic Chargers Will Not Turn On Unless:

1. The charger is plugged in.
2. The charger is attached to the battery.
3. The polarity is correct.
4. The battery has between 3 and 4 volts output. A voltage reading of less than this will normally indicate a defective or dead power cell and attempting to charge it could result in physical danger to the operator or technician.