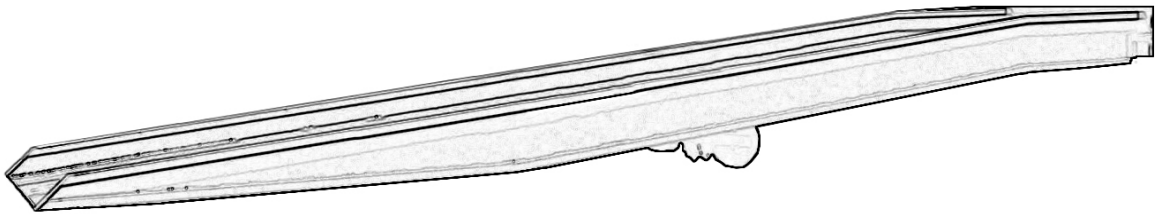




HANDLE•IT™
M I I E Q U I P M E N T

Yard Ramp Manual





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

Operation and Maintenance Manual for Yard Ramps.

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Introduction

Each Handle-It Mobile Ramp has been computer designed and engineered to provide the safest and most dependable service on the toughest of tasks. Design strength and capacity have been thoroughly checked, analyzed and tested. In fact, stress analysis, as performed and verified by an independent source, illustrates our entire family of ramps as capable of withstanding dynamic loading weights.

Handle-It hopes that you enjoy many years of service from your new ramp, and is certain that it will perform to your expectations. Please retain this service manual, as it is your guide to maintaining your ramp in top operating condition.

Product Information

Frame Design And Construction

Your Handle-It Yard Ramp has been manufactured to meet rugged computer design criteria to provide a high strength and durable product. Frames are constructed from structural aluminum members and extrusions joined together by continuous MIG welding. In addition, steel members are joined together by continuous welding.

Grating Variations

Gratings are constructed with an open grid design and has serrated edges to provide safe traction during use. The steel grating is an MIL special grating.

Wheel Variations

Torsion Axle Suspension System - Pneumatic wheels are installed where extensive ramp movement is required over secondary roads. Towing speeds up

to 25mph can be handled using pneumatic wheels coupled with a Torsion Axle Suspension System

Mort wheels (solid rubber tread) – Installed for limited ramp movement in yard ramp area up to towing speeds of 5mph.

Landing Gear - Stabilizing Legs with pads or dollies for placement, this is available on our all steel ramps.

Semi Pneumatic Tires - Comes on our all steel ramps with the Hydraulic option- 6mph.

Hydraulic System

The manually operated hydraulic pump activates cylinders to raise and lower during positioning to achieve desired height to the truck or dock. The Pump contains controlled flow return to facilitate smooth action during ramp lowering.

Suspension System

Handle-It has re-engineered and upgraded from the original cushion air bags to a maintenance free, rubber torsion axle. The high quality-high strength axle utilizes an independent wheel suspension, which reduces frame stress and shock, due to terrain conditions.

Safety Features

1. Safety chains with hooks are provided to secure ramp to dock or truck during use. Chains must be taught!
2. Restricted hydraulic flow provides slow lowering of ramp to protect cylinders and suspension system.
3. Balanced design permits ease of ramp positioning and handling.
4. Beveled edges on ramp approach aprons minimize load jarring.
5. High curbs with painted safety strips clearly outline edge of ramp for fork truck operator.
6. Detachable steel towing hitch is provided to aid in secure movement of ramp.
7. Serrated grating surface provides safe traction to fork truck and walking personnel.

Operating Instructions

Towing

1. Be sure the release valve is OPEN, so there is no pressure in the hydraulic system.
2. Push J-Hook at end of tow bar through upper hole in center of tread plate.
3. Lower tow bar to insert T-Bolt through keyed hole in anchor plate.
4. Turn T-Bolt 90 degree so that the cross pin is secured into position in the machined detent groove. Tighten T-Nut to secure.
5. Hitch eye of tow bar to towing vehicle.
6. Tow speed limits:
 - Solid Rubber Tires: 5 M.P.H. maximum
 - Pneumatic Tires: 25 M.P.H. on primary and secondary roads, 5 M.P.H. cross country
 - Semi Pneumatic Solid Tires for our steel ramps: 6 M.P.H. mph at all times

Positioning

1. Remove tow bar.
2. Close pump release valve.
3. Pump handle to raise ramp about 2" higher than vehicle or dock level.
4. Move ramp into position so that ramp apron overlaps vehicle or dock.
5. Open pump release valve to permit ramp to settle down onto vehicle or dock.
6. Secure ramp to vehicle or dock with safety chains. The chains must be taught!
7. Leave valve in open position.

Removing Ramp From Vehicle Or Dock

1. Disconnect safety chains.
2. Close pump release valve.
3. Pump handle to raise ramp.

4. Roll ramp away from vehicle or dock.
5. Open pump release valve to lower ramp upon its suspension system.
6. Leave valve in OPEN position.

Maintenance Guide

Proper use of the ramp and periodic checks using the following list as a part of a Preventative Maintenance Program will help assure trouble-free performance and increased life of the ramp.

Important: Keep the Pump Release Valve OPEN at all times EXCEPT when elevating the ramp.

Important: If wheel bearings are submerged under water where contamination can enter, remove and clean bearings immediately and repack bearings with Wheel Bearing Grease.

Hydraulic System

If signs of a leak are found, or, if there is a **noticeable** decrease in pump pressure, check pump fluid level. To check pump fluid level, make certain ramp is in lowered position with pump release valve OPEN so that fluid in cylinder can be forced back into the pump. Remove the pipe plug and with a clean stick, check oil level through the pipe plughole. Refill to 1/4" of top if level is below this point. Replace pipe plug. Use only hydraulic oil mil-h-55 or equivalent.

To drain pump, disconnect hose at pump, close pump release valve, and actuate pump handle until all oil is removed.

Wheels

Check pneumatic tire pressure as often as required to maintain 90 to 100 lbs. psi in both tires. Wheel bearings should be checked yearly for sufficient grease. Replenish only with WHEEL BEARING GREASE.

Torsion Axle Suspension

Check the wheel bearings for sufficient grease. Replenish only with WHEEL BEARING GREASE.

Undercarriage Pivot Pins

Add grease every 100 miles or at least every 6 months, at center of tubes (2) surrounding pivot-pins (2). Use Molybdenum Disulfide type of grease. Use an oil can to lubricate these places:

1. At pump handle socket pivot-pins.
2. At upper and lower pivot-pins on each hydraulic cylinder.

Tighten Loose Nuts And Bolts

Replacement Parts Identification

DESCRIPTION	WGT.	PART NUMBER
Degree Indicators		0002-002
Hydraulic Cylinder 1 1/2" bore	8#	8071-001
Hydraulic Cylinder 2" bore	18#	8071-002
Cylinder Mounting Pins(2")		3950-205
Cylinder Mounting Bracket		3950-210
Hydraulic Pump	10#	8006-001
Hydraulic Pump - Retro	11#	3950-P1
Double Acting Hydraulic Pump		8048-001
Electric Hydraulic Pump		8070-001
Large Reservoir (cap. 65 cubic inches)	1#	8006-003
Small Reservoir (cap. 35 cubic inches)	1#	8006-004
Pump Bracket		3950-707
Pump Handle		3950-212
Hydraulic Hose - 36" (with fittings)		8074-001
Hydraulic Hose - 60" (with fittings)		8074-003
Wheel - 21" Pneumatic		8023-017
Wheel Spacer, 5/8"		8088-001
Wheel Spacer, 7/8"		8088-002
Wheel Spacer, 1 1/4"		8088-003
Wheel - 18" MORT	70#	8023-019
Wheel Fork Assembly - 70"	106#	3949-001
Wheel Fork Assembly - 84"	113#	3949-002
Wheel Fork Assembly - 96"	121#	3949-003
Heavy Duty Fork Assembly		3949-070
Heavy Duty Fork Assembly		3949-084
Heavy Duty Fork Assembly		3949-096
Hub Assembly	3#	3000-1033
Heavy Duty Hub (for pneumatic)		3000-1034
Firestone Air Bags (2 pcs.)		8075-001
Torsion Axle - 70"		8075-070
Torsion Axle - 84"		8075-084
Torsion Axle - 96"		8075-096
Axle for 18" & 21"	2#	8099-001
Lock Nut for Axle	1#	4000-0045
Tow Bar Assembly - PINTLE	35#	3950-101A
Tow Bar Assembly - FORK TUBE	36#	3950-101B
Tow Lock Pin Assembly		3950-107

Tow Bar Deck Plate		3950-211
Ratchet for Safety Chains		0001-001
Safety Chains		8097-002
70 Grade Safety Chains		8097-002A
RUBBER CRUSH PAD		3951-001
Replacement Grating (steel) 3' x 6'	279#	8056-001
Replacement Grating (steel) 3' x 8'	371#	8056-002
Replacement Grating (steel) 3' x 24'	1113#	8056-003
Replacement Grating (steel) 2' x 6'	186#	8056-004
Replacement Grating (steel) 2' x 24'	742#	8056-006
U-Bolt (6 each bag)	1# x 6pc	8098-001
Grating Clip (6 each bag)	3# x 6pc	3950-711
Replacement Galvanized Grating 3' x 6'	279#	8092-001
Replacement Galvanized Grating 3' x 24'	1113#	8092-002
Replacement Galvanized Grating 2' x 6'	186#	8092-003
Replacement Galvanized Grating 2' x 24'	742#	8092-004
Replacement Grating Aluminum 28" x 6'	79#	3000-1084
Replacement Grating Aluminum 28" x 24'	313#	3000-1073