



Mechanical Dock Leveler Industrial Series Model "NM"

20,000 to 50,000 lbs. Capacity

Operation and Maintenance Manual

This manual applies to NM series dock levelers manufactured on or after September 2018, with Serial Numbers 46064 and greater.

P/N: 49-0158-L

NORDOCK INC.

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Preface

PLEASE READ AND UNDERSTAND THIS MANUAL COMPLETELY

This manual gives detailed information and instruction on how to operate and maintain your equipment correctly. Failure to do so could result in personal injury, and/or equipment damage. Please consider this manual a permanent part of the unit and keep it with the dock leveler for reference whenever needed.

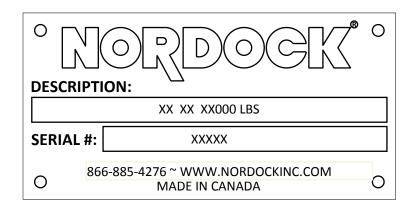
If you have any questions about this manual, the dock leveler, it's components, or our products and services, please call us at 1-866-885-4276 and we will be happy to assist you. With proper care and maintenance, this dock leveler is designed to work effectively and efficiently for many years to come.

Problems, Errors and Omissions

This manual has been prepared with the utmost care and attention to detail as to ensure accurate parts and service information should the need arise. Nordock Incorporated believes this manual will provide the operators of this unit all the necessary information required to operate and maintain it for many years. If you believe there is an error, if you have a problem following the guidelines, or if there is information that you feel is missing from this manual, please contact us at the above number so we may attend to the issue immediately.

Dock Identification

It is very important that in order to provide the best possible service from Nordock Inc., please include the model, serial number and capacity of the dock leveler whenever you contact us. Below is the same serial number decal that will be found on the left side frame rail (standing on the dock, facing the lip). Please fill in the information from the decal on the dock leveler to this area. This will greatly reduce the possibility of improper parts being shipped to you.



<u>Copyright</u>

This manual is copyright to Nordock Incorporated. All information, text, drawings, and technical data contained herein are for reference only. No part of this manual may be copied, altered, or stored on electronic media, and cannot be revealed to others for the purpose of competition.

Warranty

Nordock Inc. expressly warrants that it's Model NT, �ÖWÙVÜŒŠ™ Series hydraulic dock leveler shall remain free of defects in material and workmanship under normal use for a period of one-year from the date of delivery to the purchaser. The purchaser must maintain and operate the product in accordance with proper procedures. In the event the product proves defective in material or workmanship, Nordock Inc. will either:

- Replace the product or the defective portion thereof without charge to the purchaser; or,
- 2. Alter or repair the product on site or elsewhere, as may deem advisable, without charge to the purchaser.

In addition, Nordock guarantees, under specified guidelines, the structural components* for Ten-Years and the front and rear hinges for Twenty-Years. All structural guarantees are based on the Nordock Application Guide and must be adhered to

The warranty stated herein is that offered by Nordock Inc. and expressly disclaims all implied warranties including those of merchantability and fitness. This warranty does not cover any failure caused by improper installation, misapplication, overloading, abuse, negligence, or failure to maintain and protect the equipment from vehicle impact. Nordock Inc. or its representative assume no responsibility or liability for any incidental or consequential damages of any kind including loss of use of any equipment, damage or failure resulting from the use of unauthorized replacement parts or equipment modification, or damages resulting from the misuse of the equipment.

Nordock Inc. warranties extend only to the product itself. Nordock Inc. disclaims all liability of any kind arising out of the workmanship, methods and materials used by the installer or premature product wear, product failure, property damage or bodily injury arising from improper installation.

These warranties as stated herein are the exclusive remedies for all claims.

* Structural components include the deck, lip and frame welded assemblies. Hydraulic components include the motor, pump, hydraulic cylinders, hose and fittings.



Safety

WARNING

The operators of this unit must read these safety practices before installing, operating or servicing the dock leveler. Failure to follow these safety practices may result in bodily injury, property damage or death.

Read and follow the operating instructions contained in this manual before operating the dock leveler. If you do not understand the instructions, contact your supervisor for explanation and instruction on the safe operation of this unit. The following guidelines are to be used in conjunction with all laws, governances and codes in effect where the dock leveler is installed.

- Inspect the dock leveler to ensure that all parts are undamaged and in good working order. If the dock leveler does not appear to function properly, or if it looks damaged, DO NOT USE THE DOCK LEVELER. Section off the dock area, and notify your supervisor and safety representative.
- Be sure that the tires of the truck are properly chocked, or that the truck is properly locked in place by a functioning restraining device before loading or unloading.
- Do not stand on the dock leveler when it is in motion. Stand on the floor behind the hinge as the deck rises. Ensure no one is near the lip, as it will extend as the deck lowers, and will fold quickly.
- 4. Do not operate the dock leveler with equipment, material, or people on the ramp or lip. Never use a fork truck or any type of material handling equipment to lower the ramp.
- 5. Keep hands and feet clear of hinges at all times. Do not attempt to raise the ramp or lip manually. If the dock leveler fails to operate using the procedures contained in this manual, do not use the dock leveler. Report it immediately to your supervisor and safety representative. Contact Nordock Inc. or an authorized service representative for service.
- 6. Whenever any maintenance or repair is to be performed on the dock leveler, barricade the area around the deck, and place clear signage on the perimeter that the dock is not to be operated.
- 7. Use extreme caution when installing the maintenance/support stand. Stay clear of the dock until it has risen fully. **Do not stand under the dock after the stand has been removed.** The lip may fold rapidly, striking the worker.
- 8. Be sure both lip and deck maintenance support stands are in place before entering the dock leveler pit area. See also Maintenance Procedure next page.
- 9. Ensure the dock leveler is clear of all material, equipment, or people before the chocks are removed, or the truck is released from the restraint.

10. After loading or unloading, make sure the dock has been returned to its level, stored position.

If you have any questions, contact your supervisor or your local Nordock Inc. representative.

Maintenance Procedure



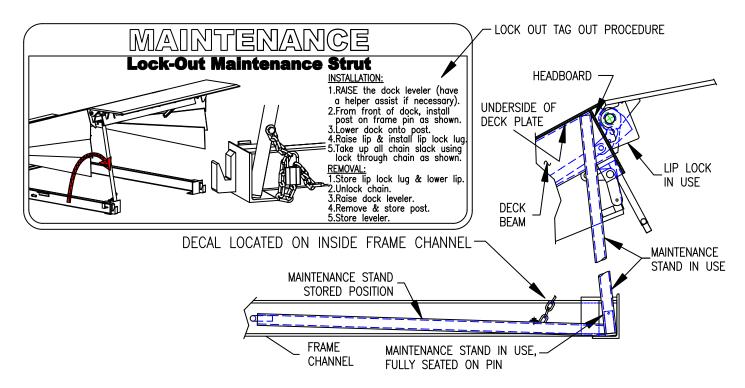
USE EXTREME CAUTION WHEN INSTALLING THE MAINTENANCE STAND

ONLY USE THE PIN PROVIDED TO PROPERLY LOCATE THE MAINTENANCE STAND. SUPPORTING THE LEVELER AT ANY OTHER LOCATION CAN RESULT IN SERIOUS BODILY HARM AND EQUIPMENT DAMAGE.

BE SURE BOTH LIP AND DECK MAINTENANCE SUPPORTS ARE IN PLACE BEFORE ENTERING THE DOCK LEVELER PIT AREA.

Before operating or maintaining the dock leveler, read and follow the practices in the Safety Section and all warnings contained in this manual. Failure to follow the guidelines in this manual and those in effect in the workplace can result in serious bodily harm and equipment damage.

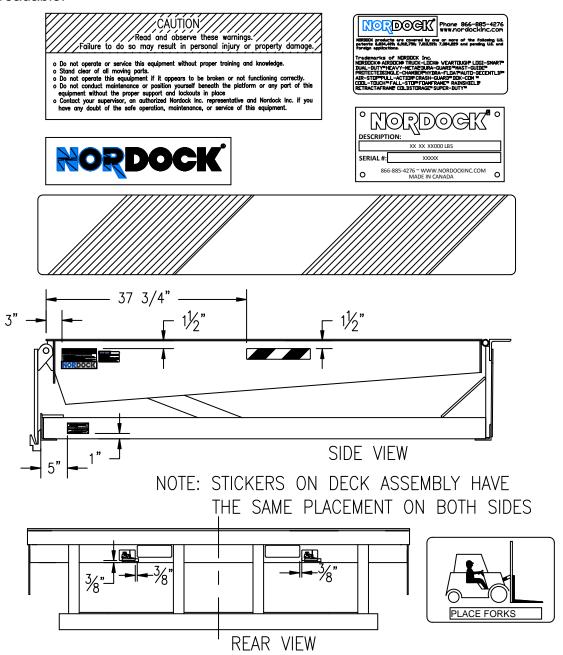
- 1. Raise the dock to its highest position.
- 2. Raise the lip and use the lip lock to hold the lip in the extended position.
- Remove the maintenance stand, located on the frame lower outside left side and position one end onto the adjacent pin (on the frame). The stand will slope toward the rear of the dock, but should be kept vertical left or right.



- 4. Lower the dock onto the stand, making sure the stand supports the deck plate and headboard between the deck beams, as shown. DO NOT support the dock from the bottom of the deck beam.
- 5. After completing work on the dock, unlock and lower the lip. Remove the maintenance stand and return to its stored position. Do not stand under the dock after the support has been removed.

Labels

The labels and decals on the dock leveler must be kept in clean, legible condition at all times. The following shows the decals and their placement on the dock leveler. Please check their condition on a daily basis, and replace them immediately if they become unreadable.



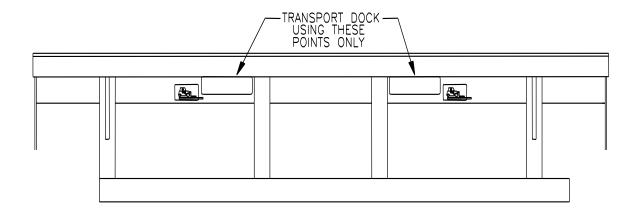
Installation

Pit Check

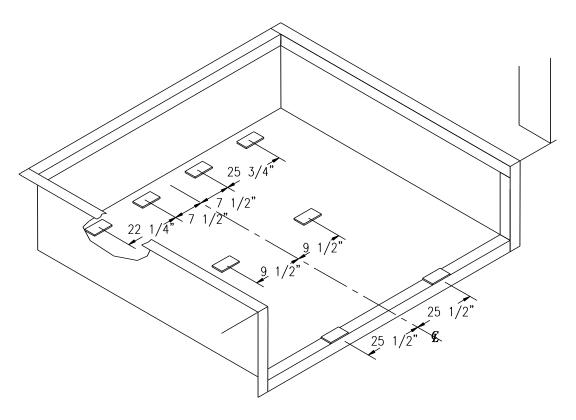
Check the entire pit area for proper construction according to the certified pit drawings. Ensure the pit walls are square and plumb. If this is a replacement, ensure the steel sections are in good, weldable condition. Nordock Inc. will assume no liability or warranty for damage caused by poor pit conditions.

Dock Installation

Note: When moving the dock leveler in preparation to installation, it is crucial that the unit be moved only using the fork pockets at the rear of the frame.

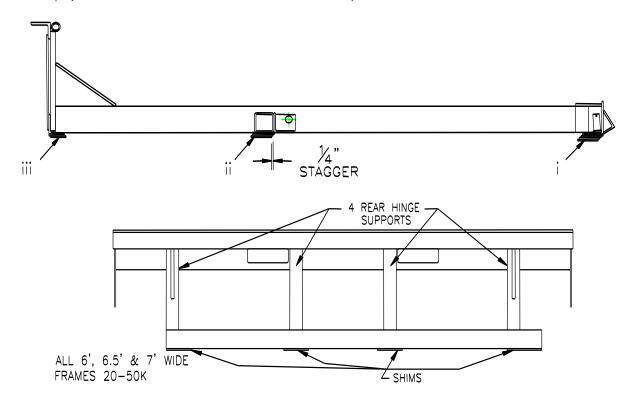


1. Shims may be placed in the pit prior to the installation of the dock. Make sure shim heights all equal the same depth from the edge of the pit area. For best weld, stagger shims at least 1/4" inch. At this time, tack-weld the shims only. See below for correct placement of shims.

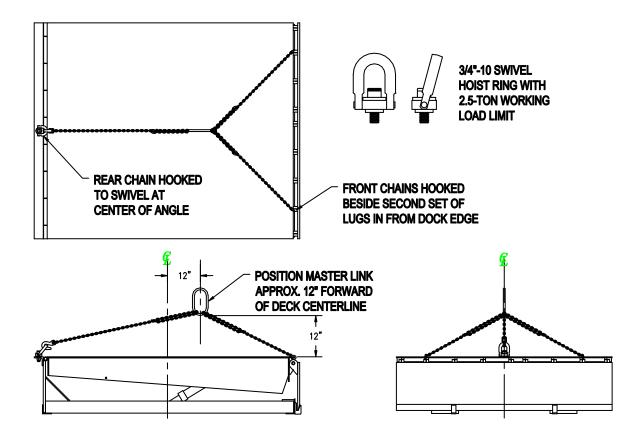


2. Shims should be placed in the following eight areas:

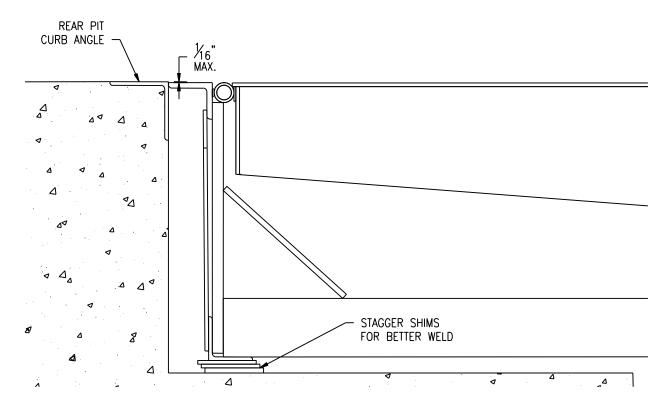
- i. Under both frame rails at front of dock. (2 places)
- ii. Under the cross tube where the lift arm mounts to the frame. (2 places)
- iii. Under rear frame angle at the uprights connecting to the hinge angle. (4 places, all 6', 6.5' and 7' 20-50K frames)



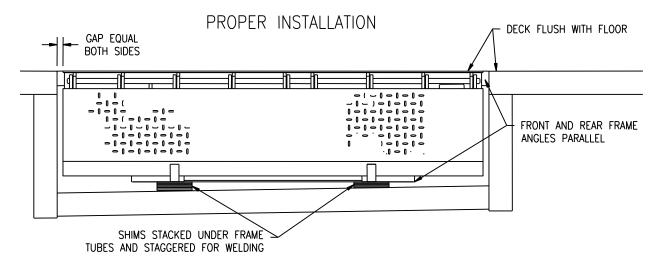
3. Attach the lifting chains to the front of dock leveler and a swivel hoisting to the rear of the dock leveler in the 3/4"-10 threaded hole. All chains must be minimum grade 80 and chain hooks have a minimum 1-ton capacity. An endless master link should also be used to assist in the levelling of the dock leveler. Three chains must be used; one hooked at the center of the hinge angle, two hooked on the front deck plate outside the second set of lip lugs from the sides of the deck. Attach the chains so that the master link is approximately 12" forward of the center of the deck, and centered along the width.



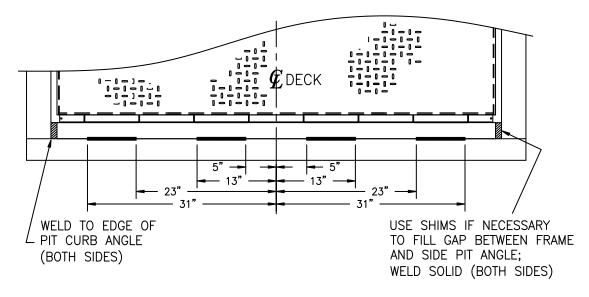
4. Lift the deck approximately 6" and check that it is level. Adjust chains accordingly if required. Do not attempt to install the dock if it is not level. Damage to the unit or personal injury may result.

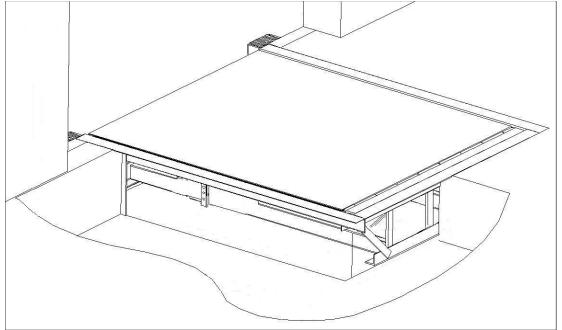


- 5. Move dock so that hinge angle fits flush and tight to pit angle and be centered between side pit curb angles.
- 6. Remove the transport cables and raise the dock leveler. Install the maintenance supports (See Maintenance Stand Section, page 13 of this manual) and check the position of the shims. Re-position if necessary. There should be no more than 1/16" in height difference at any point between the pit curb angle and the dock leveler. Tackweld the hinge angle to the pit curb angle.
- 7. Remove the maintenance support and lower the dock to its stored position. Check that the dock is still squarely positioned and level with the pit sides. Add or remove shims as necessary.



- 8. Raise the deck and re-install the maintenance support. Weld the shims solidly together, and weld the shims to both the frame and the front angle.
- 9. Weld the rear hinge angle to the rear and side pit curb angles as shown below.



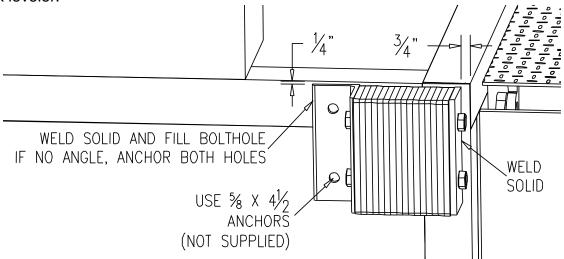


Correct installation will ensure consistent, efficient operation for many years to come.

Note: It is the installer's responsibility to complete any paint touch—up and dock area clean up that may be required.

Bumper installation

Bumpers should be installed as follows to prevent damage from trucks backing into the dock leveler.



Install bumper so that it is 1/4" below floor level for proper securing, and 3/4" away from the edge of the pit so that the heads of the bolts will clear the lip as it passes the bumper.

Weld the bumper wherever possible to the pit curb angle, and use 5/8" X 4 1/2" wedge anchors in the angle holes.

Operation

MARNING

Before operating or maintaining the dock leveler, read and follow the safety practices contained in the Safety section of this manual. Failure to follow the guidelines in this manual and those in effect in the workplace can result in serious bodily harm and equipment damage.

Always instruct the driver to release the air from the trailer's air ride suspension system, if applicable. Failure to do so may result in difficulty in pulling the release handle to store the dock leveler.

Note: If the truck to be serviced is below dock level, please see the additional instructions for <u>Below Dock Control</u> in this section.

Standard Operation

- 1. Pull and <u>Hold</u> the release handle located at the deck hinge until the deck reaches its highest point, then release the handle.
- 2. Walk out onto the ramp. The deck will begin to lower under your weight, and the lip will begin to extend. Walk as far as the below dock handle pocket only. **Do** not walk on the lip.
- 3. Proceed with loading or unloading.
- 4. To return the dock to the stored position, place one foot on the floor and the other on the dock. Pull the release handle until the lip clears the truck bed using your weight to slow the deck's ascent. Release the handle before it reaches the raised position.
- 5. Walk out onto the ramp slowly to lower the deck to floor level. Ensure the lip has properly folded, 90° to the deck.

Below Dock End Loading

To lower the ramp without extending the lip for loading or unloading below dock level, substitute item 1 in the preceding instructions with the following:

- 1a. Pull the release handle until the deck rises 4-6" above floor level.
- 1b. Move along side the dock and pull the lip extend handle to fold the below dock legs. This allows the deck to lower directly onto the front frame stops.

Below Dock Service

As a truck is being loaded, it may lower below the below dock stops. If a gap appears between the lip and the deck

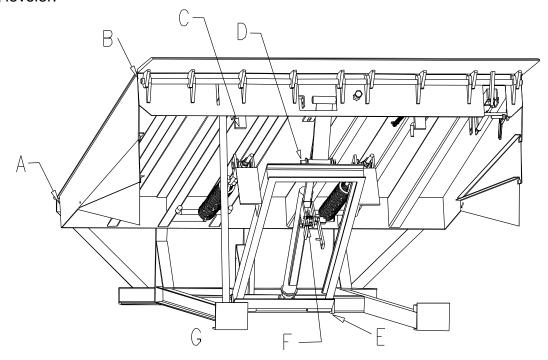
- 1. Remove all equipment and material from the deck.
- 2. Pull the below dock control handle and step onto the deck to lower the dock and close the gap. Loading may resume.

Maintenance and Lubrication

WARNING

Before operating or maintaining the dock leveler, read and follow the safety practices contained in this manual. Failure to follow the guidelines in this manual and those in effect in the workplace can result in serious bodily harm and equipment damage.

Note: Use only the lubricant grades specified in this manual. Failure to use the materials listed may lead to premature failure, and will void any warranty claims for the dock leveler.



Item	Lubrication	Adjustment	Cleaning
- A -	Every 90 days	None	Remove debris as
Dock Hinge	Using light oil		required
- B -	Every 90 days	None	Remove debris as
Lip Hinge	Using light oil		required
- C -	Every 90 days	None	Remove debris as
Below Dock Stops	Using light oil		required
- D -	Every 90 days	None	Remove debris as
Deck Float	Using grease		required
Assembly			
-E-	Every 90 Days using	None	Remove debris as
Lift Arm Assembly	light oil		required
-F-	Every 90 days	None	Every 90 days or as
Hold Down Pawls	Using grease *		required to remove debris
-G-	None	None	Every 90 days or as
Pit Area			required to remove debris

^{*}Note: Avoid getting grease on ratchet bar teeth.

Acceptable Lubricants and Oils

Grease

Grease used for hinges must meet a minimum EP-2 grade. E.G.:

CHEVRON DURA-LITH EP-2

Light Oil

Light oils used should have good penetration and adhesion qualities.

Spring Adjustment

↑ WARNING

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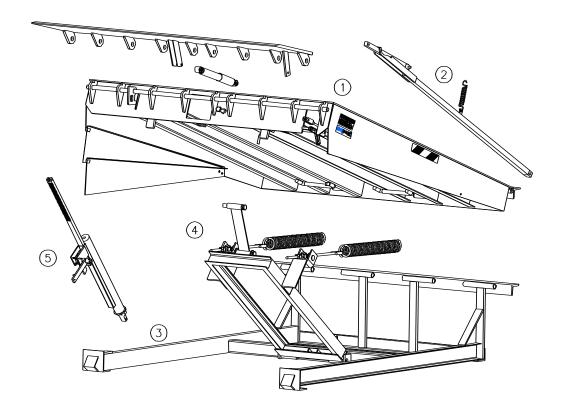
If the dock fails to raise fully and engage the lip extend mechanism, the spring tension may require adjustment.

- 1. Raise the dock and install the maintenance stand as described in the safety section.
- 2. Turn each adjuster nut clockwise 2 full turns. Do not adjust only one spring.
- 3. Remove maintenance stand and test the dock from the parked (level) position. Repeat steps 1 and 2 until dock rises fully and lip engages.

Note: It is important that the lip extend mechanism engages fully with the lip extension arm. An additional 2 turns of both adjusters after the lip engages will ensure consistent lip activation.

Do not over tighten springs. Adjust only until dock raises to enough to correctly engage the lip extend mechanism. Over tightening the springs may cause damage to the adjusters, over-stretch the springs, or make the dock difficult to lower.

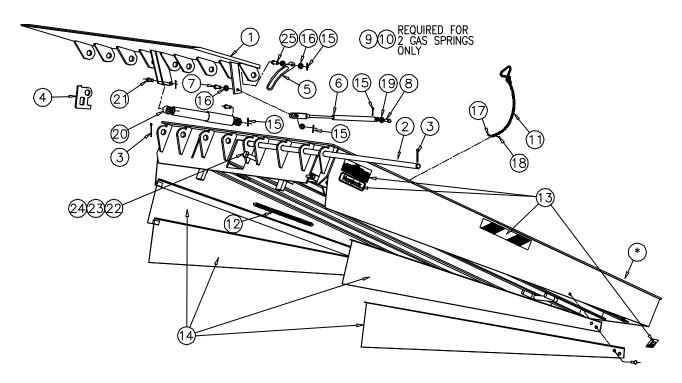
Parts and Service Tables



Item	Description
Number/	
Section	
1	Deck and Lip Assembly
2	Lip Extend Assembly
3	Frame Assembly
4	Deck Lift Arm and Float Assembly
5	Hold Down Assembly

Note: Not all parts and weldments are noted in this manual. Only those that are serviceable and/or replaceable will be listed. For additional information on those parts not included in this manual, please contact Nordock. Remember to make note of the model and serial number of the unit for accurate parts and service.

Section 1 – Deck and Lip Assembly



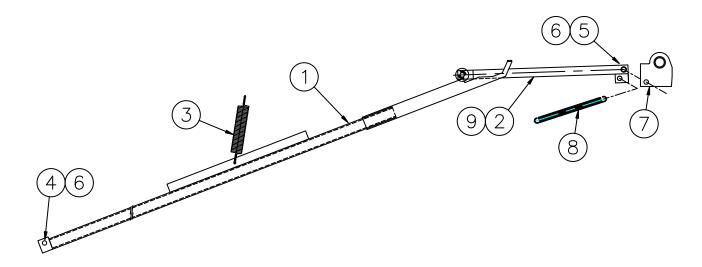
Item	Qty.	Description / Model									
1	1	Lip Weldn	nent		·						
		Congoity	Lip		P/N	I – Dock W	idth				
		Capacity	Length	6'	6.5'	7'	7'T	70"			
			16"	42-1615	42-1624	42-1633	42-1642	42-1606			
		20-25K	18"	42-1616	42-1625	42-1634	42-1643	42-1607			
			20"	42-1617	42-1626	42-1635	42-1644	42-1608			
			16"	42-1618	42-1627	42-1636	42-1645	42-1609			
		30-40K	18"	42-1619	42-1628	42-1637	42-1646	42-1610			
			20"	42-1620	42-1629	42-1638	42-1647	42-1611			
			16"	42-1621	42-1630	42-1639	42-1648	42-1612			
		45-50K	18"	42-1623	42-1631	42-1640	42-1649	42-1613			
			20"	42-1624	42-1632	42-1641	42-1650	42-1614			
2	1	Lip Hinge Rod		43-0148	43-0149	43-0150	43-0150	43-0465			

Chart cont'd next page

3	Note
5 1 End Load Linkage Arm – Handle To Lip 43-0194 6 A/R Gas Spring – Lip Extend (Quantity As Required)	
6 A/R Gas Spring – Lip Extend (Quantity As Required) Gas Spring c/w Clevis End 42-1568 7 1 Clevis Pin - Gas Spring to Lip For single gas spring - Clevis Pin, 1/2" x 1 1/4" 13-2111 8 1 Pin - Gas Spring to Deck For single gas spring - Clevis Pin, 3/8" x 1 5/8" 13-0500 9 1 Nut, Nylock, 5/16", plated (req'd for two gas springs only) 13-0500 10 2 Washer, flat, 3/8", plated (req'd for two gas springs only) 13-0203 11 1 Below Dock Release Chain – Deck to Handle, 15" 42-0299 12 1 Below Dock Leg Return Spring 13-0294 13 1 Dock Leveler Decal Kit 42-0392 14 1 Telescoping Side Skirt Kit (optional, if equipped) 6' Long Docks 42-0393 15 6 Cotter Pin, 1/8" x 1" 13-0171 16 4 Washer, 1/2" 13-0267 17 1 Nut, Nylock, #10-24 13-0582 18 1 Screw, #10-24 x 3/4" 13-0787 19 1 Washer, 3/8" SAE Flat 13-0144	
Gas Spring c/w Clevis End 42-1568 7	
7 1 Clevis Pin - Gas Spring to Lip	
For single gas spring - Clevis Pin, 1/2" x 1 1/4" For two gas springs - Clevis Pin, 1/2" x 2 1/4" 13-0288	
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11 1 Below Dock Release Chain – Deck to Handle, 15" 42-0299 12 1 Below Dock Leg Return Spring 13-0294 13 1 Dock Leveler Decal Kit 42-0392 14 1 Telescoping Side Skirt Kit (optional, if equipped) 6' Long Docks 42-0393 15 6 Cotter Pin, 1/8" x 1" 13-0171 16 4 Washer, 1/2" 13-0267 17 1 Nut, Nylock, #10-24 13-0582 18 1 Screw, #10-24 x 3/4" 13-0787 19 1 Washer, 3/8" SAE Flat 13-0203 20 1 Damper 13-0144 21 2 Clevis Pin, Damper 1/2" x 2 1/4 " 13-0302	
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13 1 Dock Leveler Decal Kit 42-0392 14 1 Telescoping Side Skirt Kit (optional, if equipped) 6' Long Docks (42-0393) 15 6 Cotter Pin, 1/8" x 1" 13-0171 16 4 Washer, 1/2" 13-0267 17 1 Nut, Nylock, #10-24 13-0582 18 1 Screw, #10-24 x 3/4" 13-0787 19 1 Washer, 3/8" SAE Flat 13-0203 20 1 Damper 13-0144 21 2 Clevis Pin, Damper 1/2" x 2 1/4 " 13-0208 22 1 Bolt, Hex, 5/8" x 4" long 13-0302	
14 1 Telescoping Side Skirt Kit (optional, if equipped) 6' Long Docks 8' Long Docks 42-0394 42-0395 15 6 Cotter Pin, 1/8" x 1" 13-0171 16 4 Washer, 1/2" 13-0267 17 1 Nut, Nylock, #10-24 13-0582 18 1 Screw, #10-24 x 3/4" 13-0787 19 1 Washer, 3/8" SAE Flat 13-0203 20 1 Damper 13-0144 21 2 Clevis Pin, Damper 1/2" x 2 1/4 " 13-0208 22 1 Bolt, Hex, 5/8" x 4" long 13-0302	
(optional, if equipped) 8' Long Docks 42-0394 15 6 Cotter Pin, 1/8" x 1" 13-0171 16 4 Washer, 1/2" 13-0267 17 1 Nut, Nylock, #10-24 13-0582 18 1 Screw, #10-24 x 3/4" 13-0787 19 1 Washer, 3/8" SAE Flat 13-0203 20 1 Damper 13-0144 21 2 Clevis Pin, Damper 1/2" x 2 1/4 " 13-0288 22 1 Bolt, Hex, 5/8" x 4" long 13-0302	1
10' Long Docks 42-0395 15 6 Cotter Pin, 1/8" x 1" 13-0171 16 4 Washer, 1/2" 13-0267 17 1 Nut, Nylock, #10-24 13-0582 18 1 Screw, #10-24 x 3/4" 13-0787 19 1 Washer, 3/8" SAE Flat 13-0203 20 1 Damper 13-0144 21 2 Clevis Pin, Damper 1/2" x 2 1/4 " 13-0288 22 1 Bolt, Hex, 5/8" x 4" long 13-0302	
15 6 Cotter Pin, 1/8" x 1" 13-0171 16 4 Washer, 1/2" 13-0267 17 1 Nut, Nylock, #10-24 13-0582 18 1 Screw, #10-24 x 3/4" 13-0787 19 1 Washer, 3/8" SAE Flat 13-0203 20 1 Damper 13-0144 21 2 Clevis Pin, Damper 1/2" x 2 1/4 " 13-0288 22 1 Bolt, Hex, 5/8" x 4" long 13-0302	
16 4 Washer, 1/2" 13-0267 17 1 Nut, Nylock, #10-24 13-0582 18 1 Screw, #10-24 x 3/4" 13-0787 19 1 Washer, 3/8" SAE Flat 13-0203 20 1 Damper 13-0144 21 2 Clevis Pin, Damper 1/2" x 2 1/4 " 13-0288 22 1 Bolt, Hex, 5/8" x 4" long 13-0302	
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22 1 Bolt, Hex, 5/8" x 4" long 13-0302	
22 1 Bolt, Hex, 5/8" x 4" long 13-0302	
22 1 Nut Hov 5/9" 12.0200	
23 1 Nut, Hex, 5/8" 13-0289	
24 1 Lock Washer, 5/8" 13-0657	
25 1 Clevis Pin, ½" x 1" 13-0805	
* 1 Rear Cup pulley & hardware - see Hold Down Section, Items 25-27	

Note 1 – For correct decal placement, see safety section

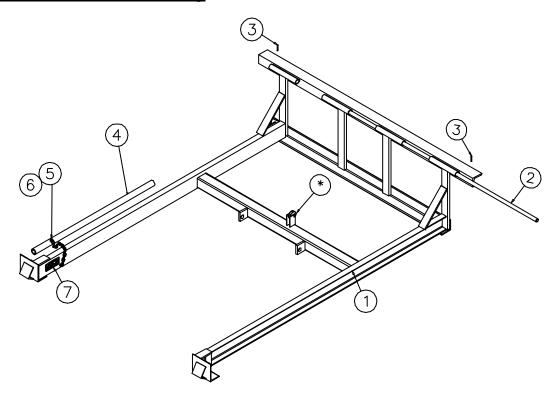
<u>Section 2 – Lip Extend Assembly</u>



Item	Qty.	Description	n / Model		P/N	Note
1	1	Rear Push-bar, Dock Length x Frame Depth 6' x 17" 6' x 19" & 23"				
		8' x 17" 8' x 19" & 23"		42-1750 42-2185		
				10' x 19" & 23"	42-2388	
2	1	Front Push-bar Weldment, c/v	v Item 9, 18	3½" c to c holes	42-2409	
3	1	Spring, 1 1/4" OD x 7 1/2" long	13-1955			
4	1	Clevis Pin – ½" x 2-1/2", Plate	13-1099			
5	5 1 Clevis Pin – ½" x 2"				13-0398	
6 2 Cotter Pin, 1/8" x 1"				13-0171		
7	1 Cam Weldment, NM, 20-50K				42-2413	
8	1	Spring, 5/8" OD x 8 1/2" long	13-0294			
9	1	Bushing, Sleeve, ½" ID x 5/8"	13-0434			
Lip Extend Assembly (Parts1-6)		8' x 19" a	nd 23" Long Fr. nd 23" Long Fr. nd 23" Long Fr.	42-1752 42-1753 42-1754	1	

Note 1 – Cam and spring to be ordered separately.

Section 3 – Frame Assembly

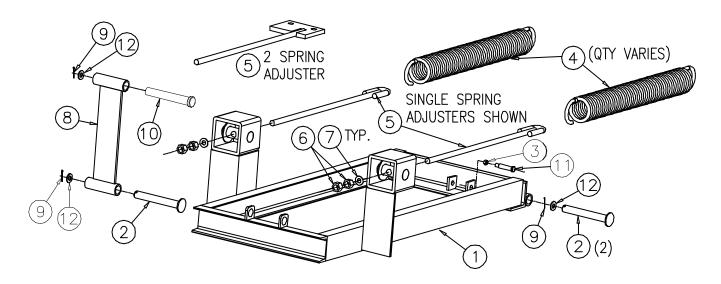


Item	Qty.	Description / Model								Note					
1	1	Frame Weldment													
		Consoitu	Dock	Frame			P/N - Do	ck Width							
		Capacity	Capacity Length Depth 6' 6.5' 7'						70"						
			6'	17"	42-243	6									
			O	19"	42-165	4	42-1657	42-1660	42-1651	4.0					
		20-40K	8'	17"	42-243	7		42-3508		1,2					
		20-40K	U	19"	42-165	5	42-1658	42-1661	42-1652						
			10'	17"											
			10	19"	42-165	6	42-1659	42-1662	42-1653						
			6'	17"											
		45-50K	45-50K	45-50K	45-50K	45-50K			19"	42-166		42-1667	42-1669	42-1663	
							8'	17"	42-244		42-2439	40 40-0			
								19"	42-166		42-1668	42-1670	42-2446		
			10'	17"	42-243		10 0 1 10	10 0 1 10							
		5		19"	42-244	_	42-2448	42-2449	40.0400						
2	1	Rear Hing	je Rod		43-015	4	43-0155	43-0156	43-0462						
									P/N						
3	2	Spring Pin, 1/4" x 2" 13-0555													
4	1	Maintenance / Support Stand Standard Dock (40") 43-0262													
	-	17 Frame Dock (30) 43-0600													
5	1	Washer, ¼" Fender, Plated 13-0271													
6	1	Screw, 1/4" -14 x 1, Tek, Hex Head, plated 13-0273													
7	1			r, Lock-Ou					43-1287						
*		8'&10' lg.					Hold Down	Section, Ite	ems 25-27						

Note 1 – NM docks use a spacer kit for a 23" frame depth

Note 2 – The standard Rear Frame angle width is 3". Widths may vary to suit pit length. Please consult factory when ordering replacement frames.

<u>Section 4 – Deck Lift and Float Assemblies</u>

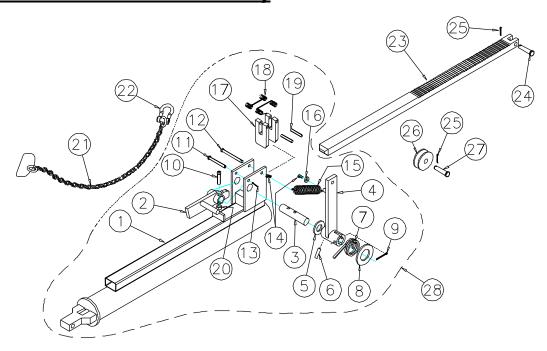


Item	Qty.	Description / Model				P/N	Note
1	1	Lift Arm Weldment	20-40K	66,	6.56, 76	42-0470	
			45-50K	66,	6.56, 76	42-1082	
			20-25K	68		42-1420	
			30-40K	68		42-0423	
			20-40K	6.5	8, 78	42-0423	
			45-50K	68,	6.58	42-1083	
			45K	78			
			50K	78		42-1349	
			20-25K	610	-	42-0846	
			30K		0 16", 18" Lip	72-00-0	
			30K		0 20" Lip		
			25K 710 40-50K 610,6.510,710			42-1349	
2	3	Lift Arm Mount Pin, Ø7/8" x 5 3/4"	42-0759				
3	1	Nut, Hex, 3/8" Nylock	13-0707				
4	A/R	Main Lift Spring	Standard Duty, (.408" Wire)			13-0007	1
			Heavy Duty, (.468" Wire)			13-0006	C/F
5	A/R	Spring Adjuster	Dock Lgth: 1 Spring			2 Springs	
			6' 42-0654			42-0656	
			8' 42-0397			42-0637	C/F
		10' 42-0655				42-0657	
6	4	Nut, Hex, 5/8" - 11	13-0289				
7	2	Washer, 5/8"	13-0952				
8	1	Upper Lift Arm Weldment				42-0933	
9	4	Cotter Pin, 1/4" x 1 3/4"				13-0992	
10	1	Upper Lift Arm Mount Pin, Ø7/8" x 4 ¾"				42-0936	
11	1	Bolt, Shoulder, 1/2" x 2", Plated				13-0344	
12	4	Washer, 1 3/8" O.D. x 15/16" I.D.				13-3575 42-1208	
13		Spring Adjuster Tool (sold separate	Spring Adjuster Tool (sold separately, not shown)				

C/F - Consult Factory.

Note 1 – Lift springs are matched at the factory. Please call your local Nordock dealer or 1-866-885-4276 for replacement springs.

<u>Section 5 – Hold Down Assembly</u>



Item	Qty.	Description / Model	P/N	Note	
1	1	Hold Down Weldment	42-0938		
2	1	Pawl Lifter Weldment	42-1350		
3	1	Hold Down Release Handle Pivot Sha	43-0798		
4	1	Hold Down Release Weldment	42-1351		
5	1	Flat Washer, 3/4"		13-0649	
6	1	Grooved Pin, 1/4" x 1 1/4"		13-1513	
7	1	Spring, 0.162" Square Wire		43-0269	
8	1	Washer, 1 1/8", SAE, plated		13-3700	
9	1	Cotter Pin, 1/4" x 1 3/4"		13-0992	
10	1	Cap Screw, 1/4" x 1 1/2" long		13-1528	
11	1	Clevis Pin, 1/4" x 2 1/4"		13-0521	
12	1	Clevis Pin, Universal, 1/4" x 2 1/2"		13-1525	
13	1	Cotter Pin, 1/16" x 1"	13-0516		
14	2	Hitch Pin Clip	13-1526		
15	1	Spring, .085" Dia. Wire, 3 1/2" Long	13-1524		
16	1	Fender Washer, 1/4"	13-0271		
17	2	Hold Down Pawl	43-0180		
18	2	Pawl Spring		43-0265	
19	2	Pawl Pin		43-0388	
20	1	Nut, 1/4"-20 Plated Nylock		13-0270	
21	1	Hold Down Release Handle Chain	6' Dock (40")	42-1000	
			8' Dock (63") 10' Dock (73")	42-1355	
			42-1373		
22	1	Shackle Anchor, 1/4" Screw Pin	13-0540		
23	1	Ratchet Bar	43-0179		
24	1	Clevis Pin, 3/8" x 1 5/8"	13-0500		
25	2	Cotter Pin, 1/8" x 1"	13-0171		
26	1	Wheel, 2" White Plastic, 8'&10' Frame	13-0169		
27	1	Clevis Pin, 3/8" x 1 5/8", 8'&10' Frame	13-0500		
28	1	Hold Down Assembly, Items 1 to 20		42-0940	