



WARRANTY

Kelley Atlantic Ltd. expressly warrants that any product sold by it will be free from defects in material and workmanship under normal use for a period of one (1) year from date of acceptance of the equipment by the purchaser, provided the purchaser maintains and operates the product in accordance with proper procedures. In event the product proves defective in material or workmanship, Kelley Atlantic Ltd. will at its option:

1. 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 Kelley Atlantic Ltd. may deem advisable, without charge to the purchaser.

The warranty stated in the previous paragraph is that expressed by KELLEY ATLANTIC LTD. AND IS IN LIEU OF ALL GUARANTEES AND WARRANTIES, EXPRESSED OR IMPLIED BY ANYONE OTHER THAN KELLEY ATLANTIC LTD. This warranty does not cover any failure caused by improper installation, misapplication, overloading, abuse, negligence, or failure to lubricate and adjust the equipment properly. parts requiring replacement due to damage resulting from vehicle impact, abuse improper operations, or lack of proper protection are not covered by this warranty. Seller assumes no responsibility or liability for (1) consequential damages of any kind which result from the use or misuse of the equipment; (2) damage or failure resulting from the uses of unauthorized replacement parts or modification of the equipment; (3) damages resulting from the misuse of the equipment. THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF, AND THERE IS NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

* Acceptance occurs when the ultimate consumer or contractor fails to reject the equipment within a reasonable time after delivery.

Kelley Atlantic Ltd. warranties extend only to the product itself.

Kelley Atlantic Ltd. DISCLAIMS all liability arising out of the workmanship, methods and materials used by the installer.

Kelley Atlantic Ltd. DISCLAIMS all liability for premature product wear, product failure, property damage or bodily injury arising from the improper installation.

WARRANTIES, whether expressed or implied, relating to workmanship and materials used in connection with the installation of Kelley Atlantic Ltd. products are specifically DISCLAIMED.

INSTALLATION

WARNING

Make sure lifting devices are in good condition and have a rated capacity of at least 3000 lbs at the lifting angle they are being used at. Stand clear of the dockleveler when it is being placed into the pit. Never allow anyone to stand on or near the dockleveler when it is being lifted or placed into the pit. The dockleveler can tip or swing into bystanders causing severe injury and/or death. Make sure the lifting equipment does not come into contact with the lifting spring assembly, lip extension mechanism, holdown assembly or other moving parts of the dockleveler when it is being placed into the pit. Damage can occur resulting in malfunction of the assemblies.

3. Place the dockleveler into the pit. The rear hinge assembly of the dockleveler frame should be tight against the rear pit curb angle and centered between the side pit curb angles.

4. Remove the shipping tie down that holds the lip to the front angle of the frame.

5. Pull the holdown release chain, located at the rear of the ramp assembly, and allow the ramp to rise to its above dock position.

WARNING

Do not operate the dockleveler when anyone is in front of it. The hinged lip will extend automatically during the downward travel of the dockleveler.

6. Raise the maintenance strut until it contacts the underside of the dockleveler ramp. If necessary, pull down on the ramp to assure a tight contact between it and the top of the maintenance strut. See Figure 2. Pin maintenance strut in place.

7. Check the alignment of the sides of the frame rear hinge assembly and the side pit curb angles. See Figure 3.

8. Check the alignment of the top of dockleveler frame rear hinge assembly and the top of the rear pit curb angle. The top of the hinge assembly should be tight against and flush with the top of the rear pit curb angle. If a flush condition cannot be achieved, the frame should be slightly lower than the curb angle. Add or subtract shims as required. See Figure 4.

FIGURE 2

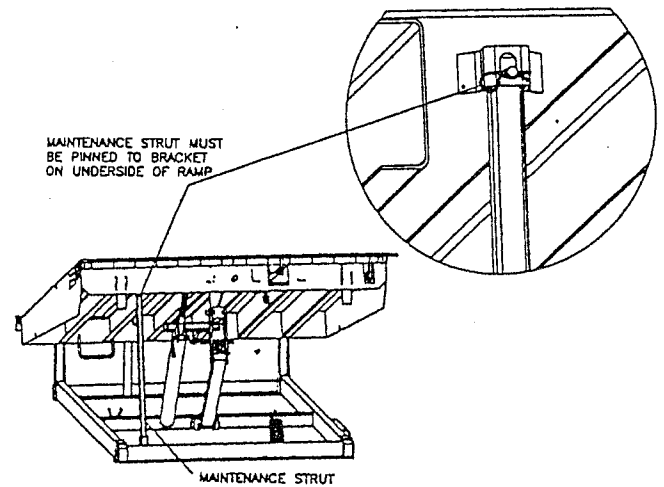


FIGURE 3

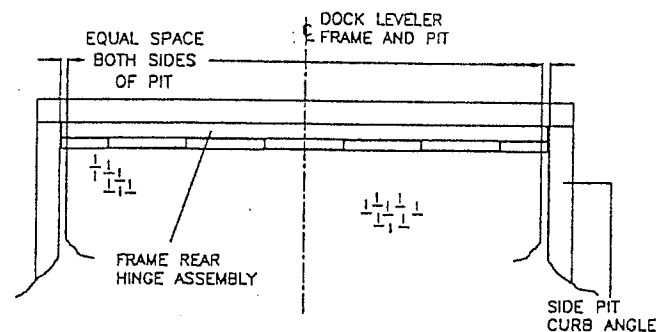
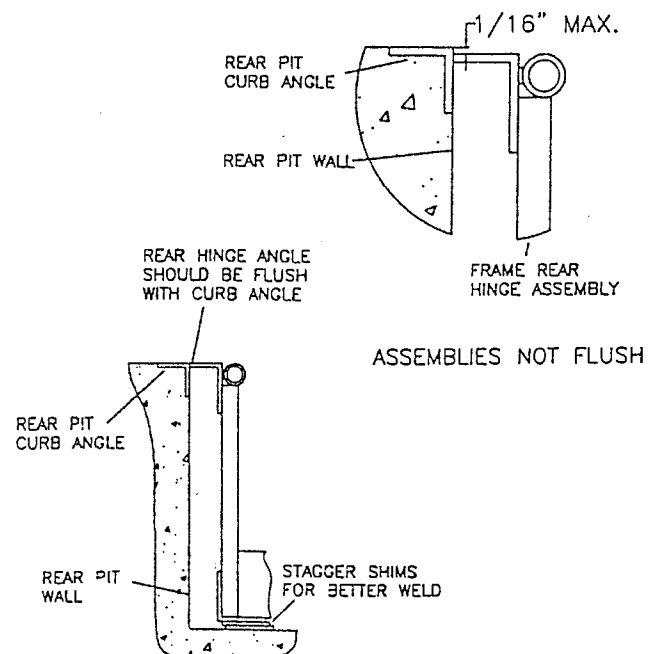


FIGURE 4



INSTALLATION

16. Check to see that the top of the dockleveler ramp is flush with the dock floor. Add or subtract shims under the below dock level supports and maintenance strut frame bracket as required. See Figure 8. Weld shims solidly together and to the frame front angle and front pit curb angle.

NOTE

Before welding the dockleveler permanently into the pit, check the frame alignment again to insure that the front and rear frame members are parallel to each other. See Figure 9. Shimming of the frame members to a point where the front and rear angles are not parallel to each other will cause excessive float on one side of the ramp. See Figure 10. The number of shims placed under the front frame angle will vary depending upon the "runout" in the poured pit.

17. Pull the release chain, located at the rear of the ramp, and allow the ramp to rise to its above dock position.

FIGURE 8

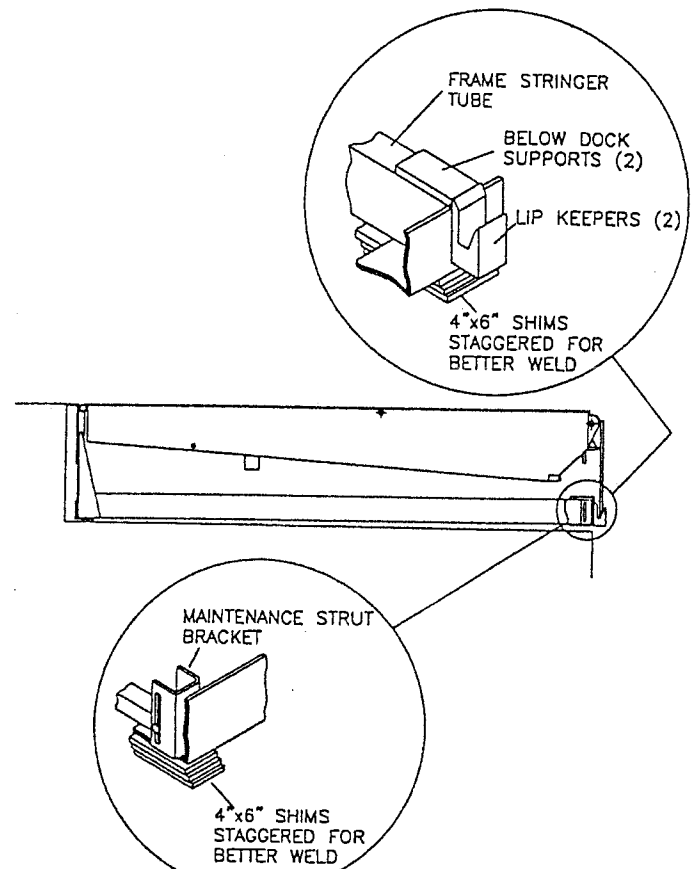


FIGURE 9

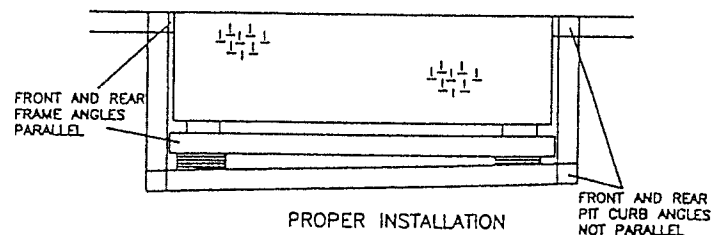
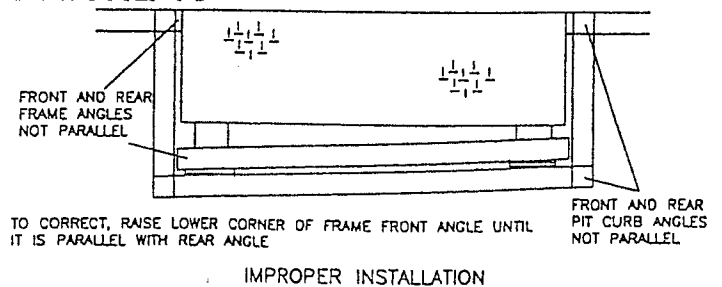


FIGURE 10



OPERATION

NOTE

Below dock movement of the ramp is limited by two (2) below dock supports. As the truck bed springs are compressed during the loading operation, it may be necessary to readjust the support leg setting so the lip is always fully extended and in tight contact with the truck bed.

To lower the ramp to the next lower setting, pull and HOLD the BDC handle as you move toward the front of the ramp. See Figure 19.

8. When loading or unloading is complete, or to load and loads, operate the dockleveler by pulling and HOLDING the release chain until the lip clears the truck bed and falls to a hanging position. RELEASE THE CHAIN BEFORE THE RAMP REACHES ITS FULLY RAISED POSITION. Walk the ramp down to the dock level position and check to see that the lip is supported in its keepers. See Figure 20.

9. Load end loads

NOTE

If the truck being serviced is below dock level see operation instructions for Below Dock Level Control on next page.

10. Unchock or release truck.

11. Inform driver that truck may now leave dock.

NOTE

If the truck pulls away from the dock before the dockleveler is stored, the lip will fall to the pendant position. You must manually return the dockleveler to its dock level (stored) position.

If the ramp is more than 4" above dock level after the truck pulls away, walk on the ramp to lower it to the dock level position.

If the ramp is less than 4" above dock level when the truck pulls away, pull the release chain and allow the dock to rise a minimum of 4" above dock level. RELEASE THE CHAIN BEFORE THE DOCK REACHES THE TOP OF ITS TRAVEL. Walk the ramp down to the dock level (stored) position.

FIGURE 19

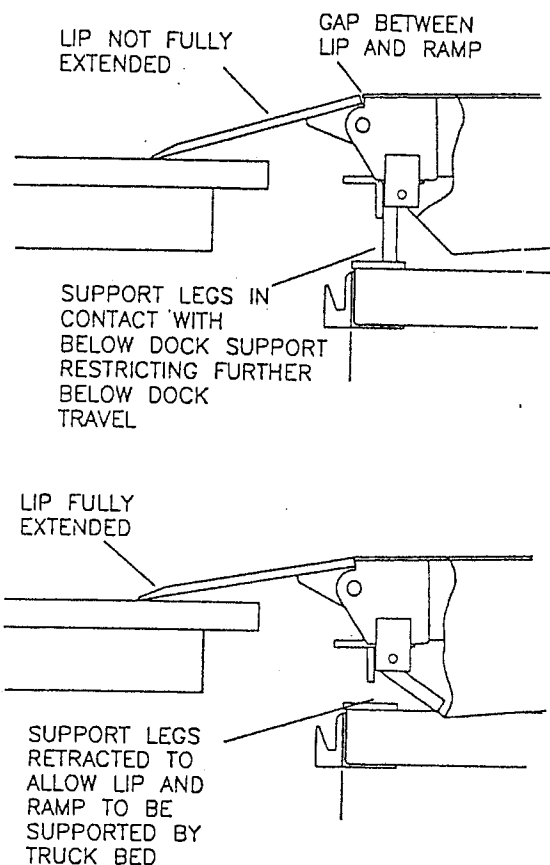
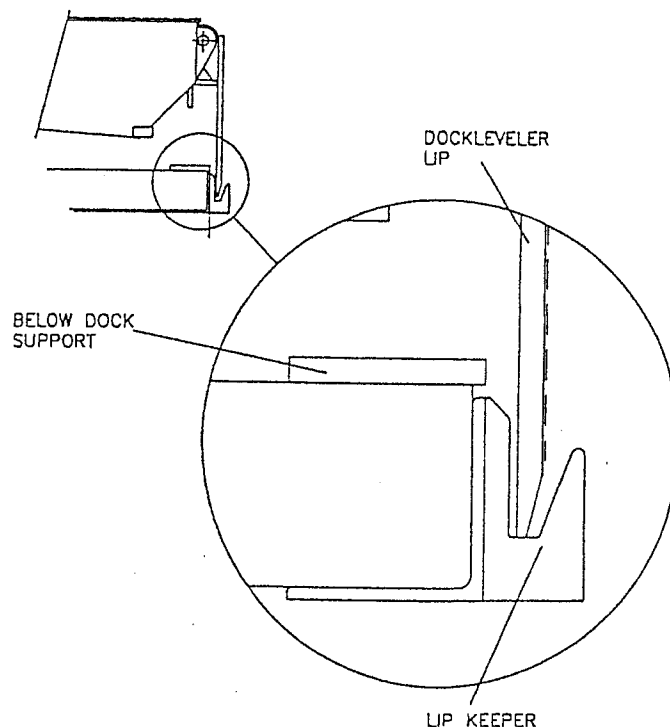


FIGURE 20



BREAK IN AND PERFORMANCE CHECK

BREAK IN AND PERFORMANCE CHECK

There may be considerable time lapse between shipment and use of your dockleveler. Therefore, it is suggested that you follow this initial break-in procedure to ensure that your dockleveler is operating properly.

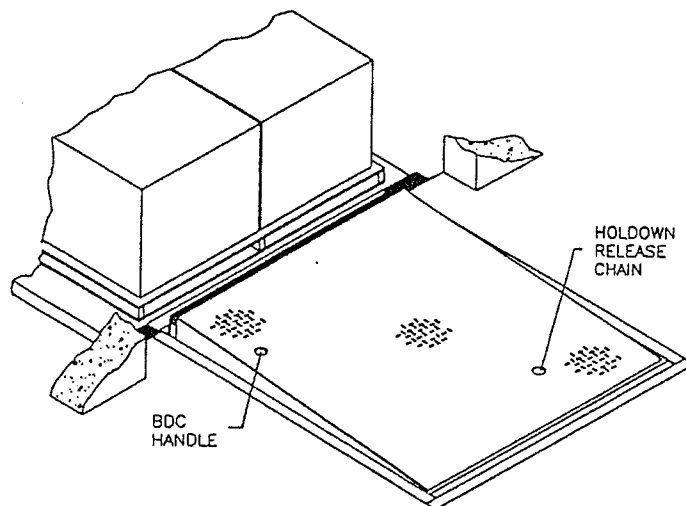
1. Lubricate the entire dockleveler. See lubrication chart on page 12.

WARNING

Do not operate the dockleveler when anyone is in front of it. The hinged lip will extend during the downward travel of the ramp.

2. Operate the dockleveler several times as follows:
 - 2.1. Pull and hold the release chain until the ramp and lip reach their full above dock position. See Figure 23.
 - 2.2. Pull the BDC release handle. See Figure 23.
 - 2.3. Move forward on the ramp while continuing to pull the handle until your weight forces the ramp to the full below dock position. The lip will extend automatically during the downward movement of the ramp.

FIGURE 23





MAINTENANCE AND LUBRICATION

NOTE

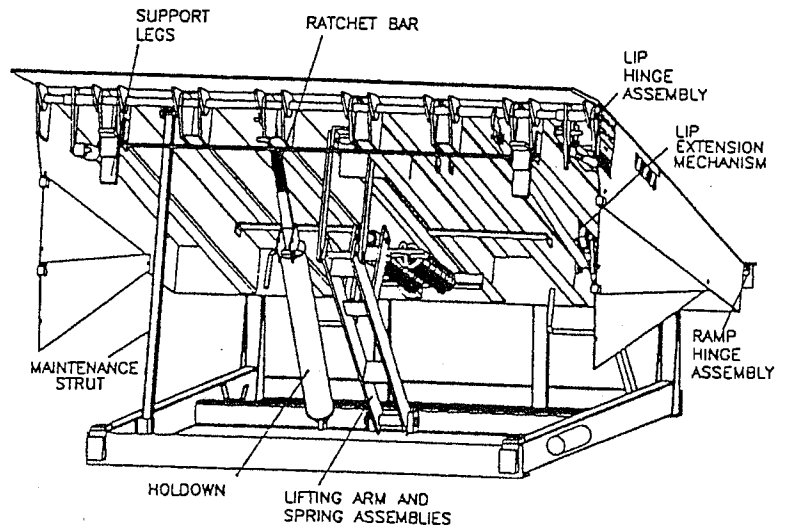
Use only lubricants shown. Improper lubrication or adjustments may cause operational problems.

WARNING

Place barricades around pit on dock floor and drive while installing, maintaining or repairing.

WARNING

Be certain the maintenance strut is securely in place before climbing into the dockleveler pit or doing any maintenance or repair under the dockleveler. See Figure 25 in this manual



MAINTENANCE AND LUBRICATION CHART (ALL CAPACITIES)

	Lip Extension Mechanism	Lifting Arm and Spring Assemblies	Lip Hinge Assembly	Ramp Hinge Assembly	Holdown	Ratchet Bar	Below Dock Control Linkage and Support Legs
LUBRICATION	Every 90 Days (Use Light Oil)	Every 90 days (penetrating oil on pins and threaded rod)	Every 90 Days (use light oil)	Every 90 Days (penetrating oil between tubes)	Every 90 days (penetrating oil).	Every 90 days (anti-seize compound).	Every 90 Days light oil on pins and shafts
ADJUSTMENT	Not Required	As required See Figure 26	Not required	Not Required	Not required.	Not required.	Not required.
CLEANING	As Required to Remove Debris	As Required to Remove Debris.	As Required to Remove Debris	Sweep Debris from Hinge Tubes as Required	Every 90 Days industrial solvent	Every 90 Days industrial solvent	As Required to Remove Debris

CHECK ALL LABELS EVERY 30 DAYS. See Parts Lists for location and part numbers. REPLACE IF REQUIRED.

TROUBLESHOOTING

LIP FAILS TO EXTEND :

1. Check to make sure that the lip extension mechanism is not bent or binding. See Figure 27.
2. Check to make sure that the lip extension mechanism is lubricated properly. Lubricate as required.
3. Make sure all the pins and pin retainers are in place and in good condition.
4. Check to see that dock rises high enough for the centre bolt of the lip extension mechanism to seat itself in the notch of the push bar. See Figure 27.

LIP FAILS TO DROP TO THE PENDANT POSITION WHEN RAMP IS RAISED FROM TRAILER:

1. Check the lip extension mechanism for free movement. See Figure 27.
2. Inspect the lip extension mechanism for bent parts. Be sure all parts are clean, lubricated and have free movement.
3. Make sure all pins and pin retainers are in correct position and in good condition. See Figure 28.

FIGURE 27

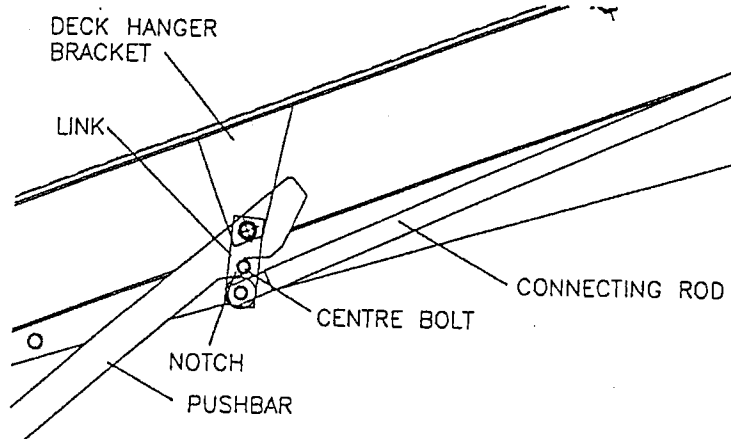
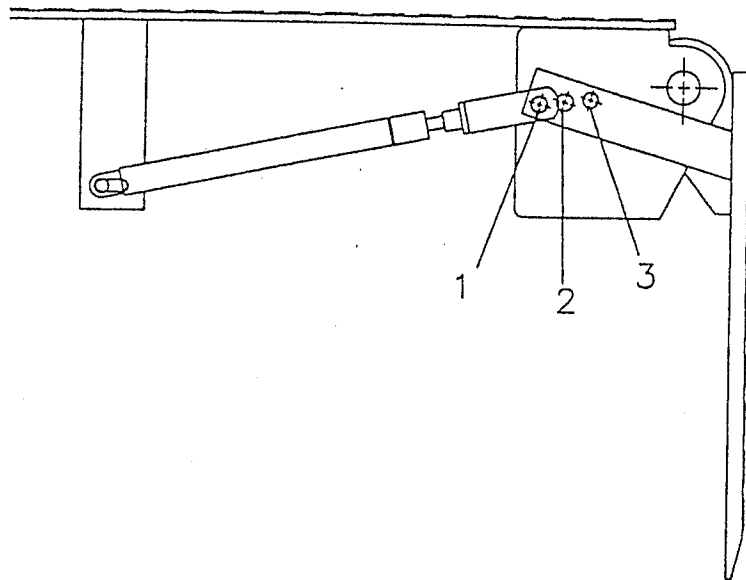
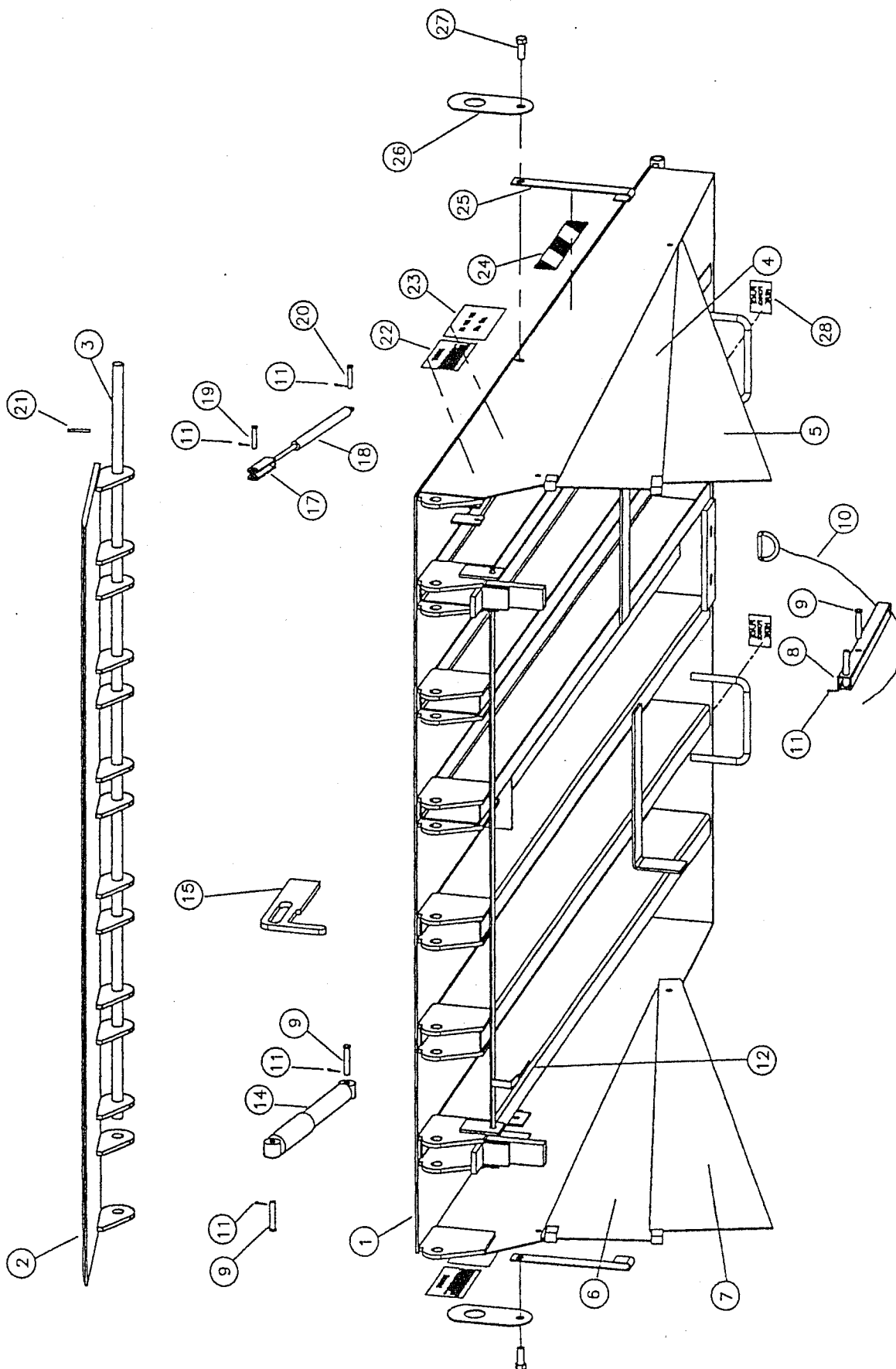


FIGURE 28

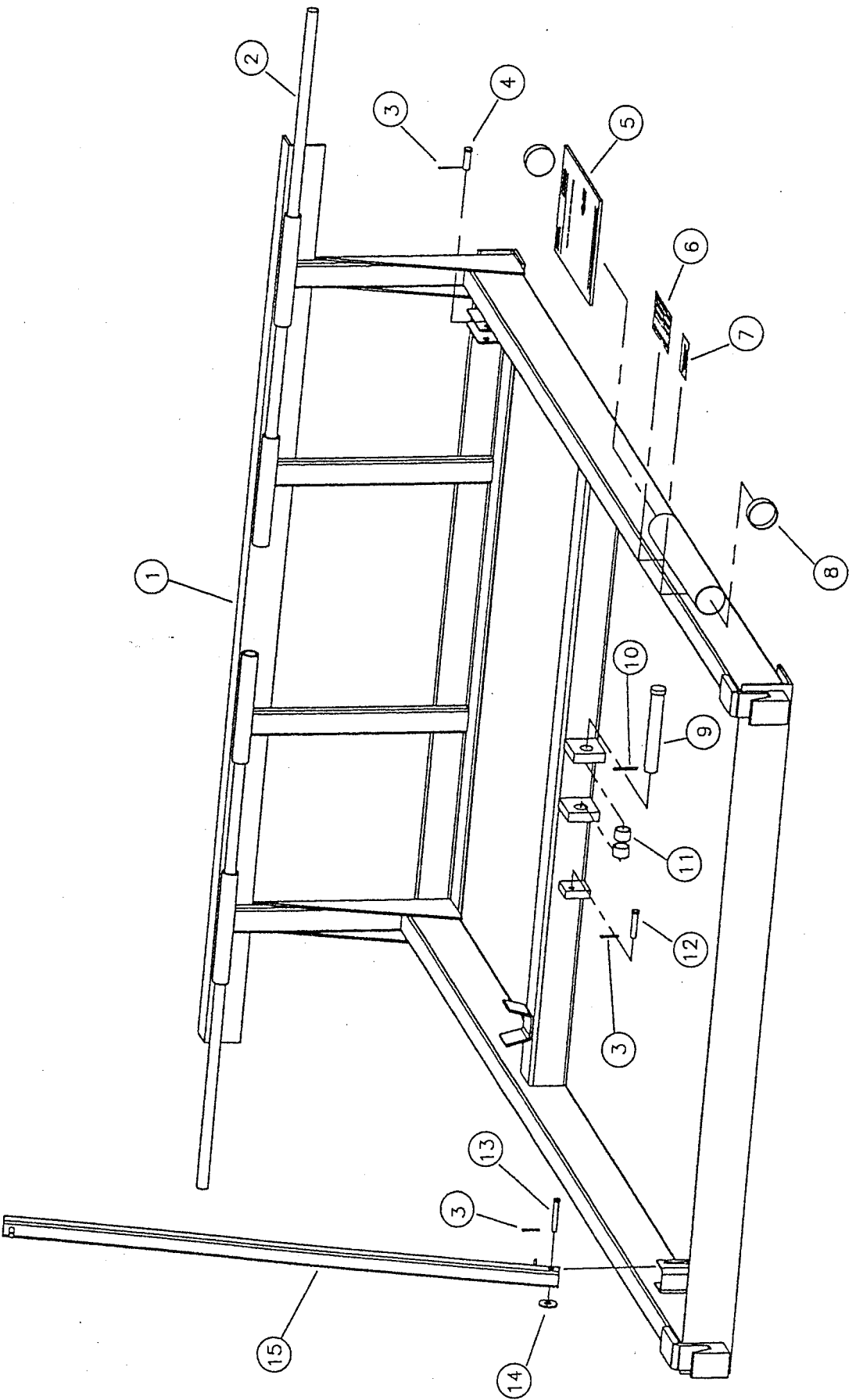


LIP SIZE	LIP CAPACITY	
	30 K	40 K
6 FT - 16"	HOLE 3	HOLE 2
6 FT - 18"	HOLE 2	HOLE 1
6 FT - 20"	HOLE 1	HOLES 3 & 3
6 ½ FT - 16"	HOLE 2	HOLE 1
6 ½ FT - 18"	HOLE 1	HOLES 3 & 3
6 ½ FT - 20"	HOLES 3 & 3	HOLES 2 & 3
7 FT - 16"	HOLE 2	HOLE 1
7 FT - 18"	HOLE 1	HOLES 3 & 3
7 FT - 20"	HOLES 3 & 3	HOLES 2 & 2

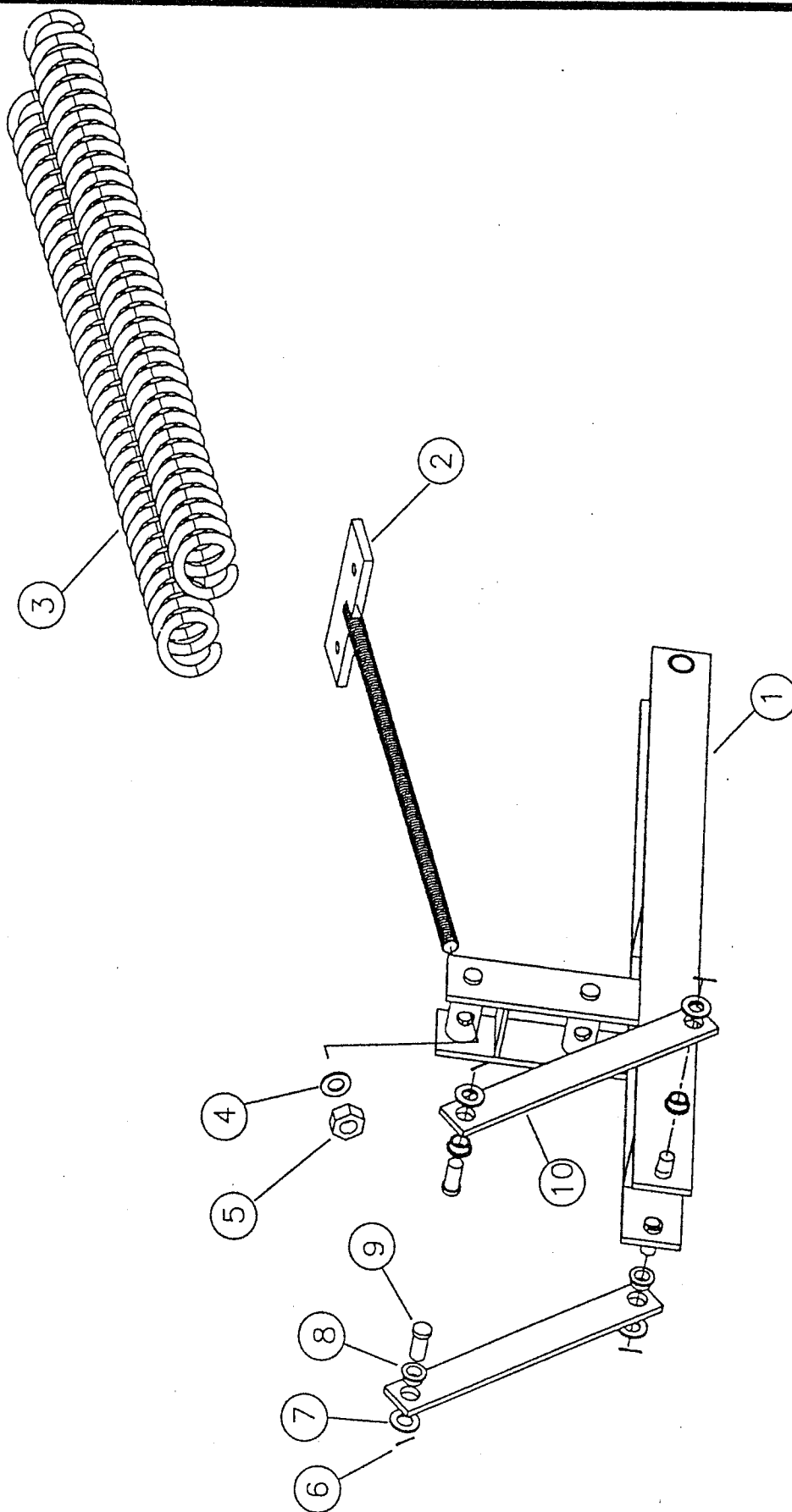
PARTS LIST - DECK, LIP, BELOW DOCK CONTROL ASSEMBLY MODEL 'SM'



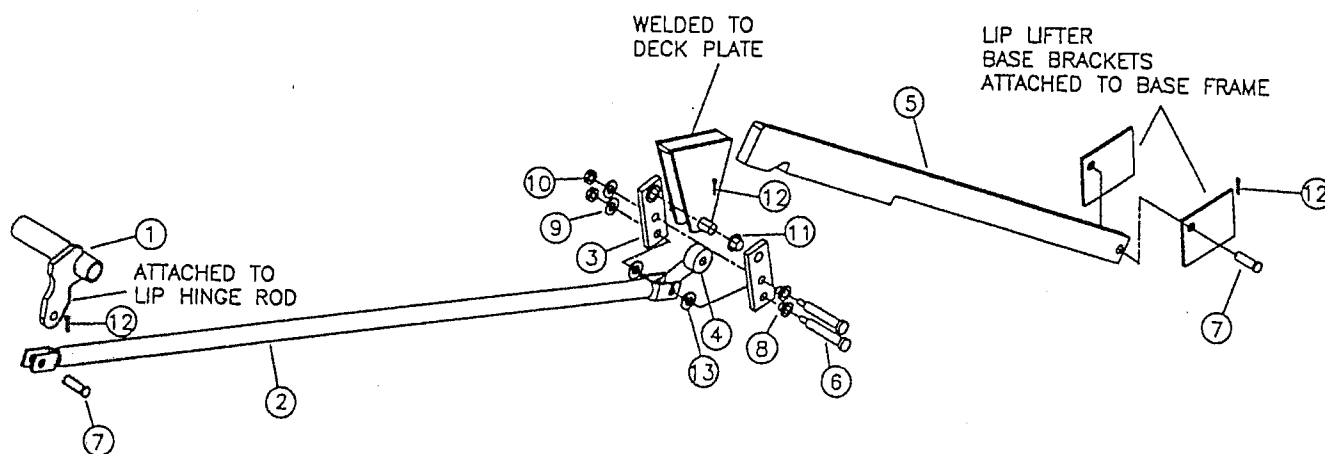
PARTS LIST - FRAME ASSEMBLY MODEL 'SM'



PARTS LIST - LIFT ARM ASSEMBLY MODEL 'SM'



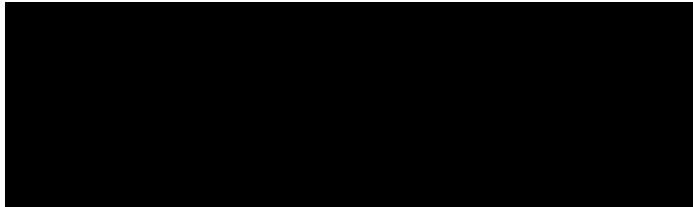
PARTS LIST - WALK-DOWN ASSEMBLY MODEL 'SM'



ITEM	QTY	MODEL	DESCRIPTION	P/N
1	1		LIP LIFTER PLATE ASSEMBLY	32-19801
2	1		CONNECTING ROD ASSEMBLY	
			6' LONG DOCKLEVELERS	32-19809
			8' LONG DOCKLEVELERS	32-19805
			10' LONG DOCKLEVELERS	32-19821
3	2		LIP LIFTER LINK	32-29807
4	1		ROLLER	32-29814
5	1		LIP LIFTER PUSHBAR	
			6' LONG DOCKLEVELERS	32-29857
			8', 10' LONG DOCKLEVELERS	32-29858

ITEM	QTY	MODEL	DESCRIPTION	P/N
6	2		1/2" x 2 3/4" SHOULDER BOLT	040-211
7	2		1/2" x 1 1/2" CLEVIS PIN	055-038
8	4		FLANGE BEARING (0.502" ID)	036-026
9	2		3/8" STANDARD FLAT WASHER	044-002
10	2		3/8" - 16 NC NUT	042-020
11	2		FLANGE BEARING (0.625" ID)	036-025
12	4		1/8" x 1 1/2" COTTER PIN	056-011
13	2		1/2" STANDARD FLAT WASHER	044-006

DOCK LEVELER



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