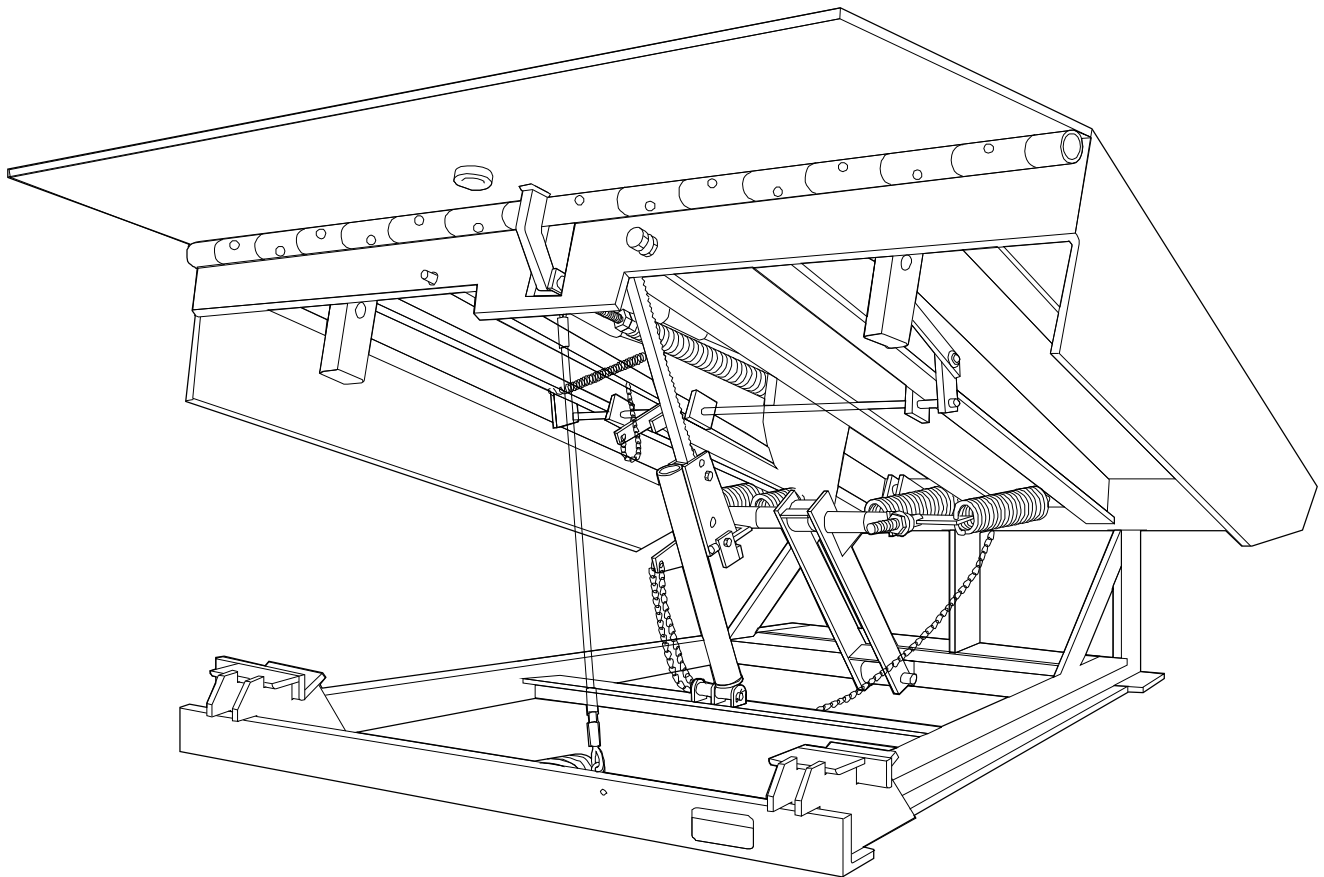


RH-1000[®] Dock Leveler



Owner's Manual

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NOTE

The Table of Contents is listed in a logical sequence that can be followed for most installations as applying to the equipment furnished. This sequence avoids unnecessary removal and replacement of equipment as much as possible.

INTRODUCTION

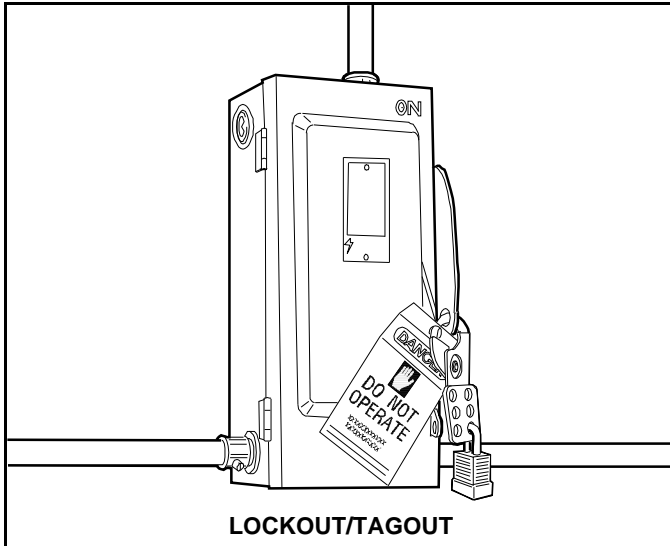
The RH-1000® by RITE-HITE® is intended to provide a safer work place for workers in shipping and receiving dock areas. The RH-1000® is a mechanical device that, when properly installed and operated, provides a safe and secure access between dock and truck at dock level. The RH-1000® is operated from the top of the dock.

NOTICE TO USER

Your local RITE-HITE® representative provides a Planned Maintenance Program (P.M.P.) which can be fitted to your specific operation. Call your local representative or the RITE-HITE® Corporation at 414-355-2600.

The RITE-HITE® products in this manual are covered by one or more of the following U.S. patents: 4,531,248; 4,560,315 (RE: 32,968); 4,570,277; 4,605,353 (RE: 33,154); 4,634,334; 4,692,755; 4,744,121; 4,819,770; 4,843,373; 4,865,507; 4,920,598; 4,995,130; 5,040,258; 5,111,546; 5,271,183; 5,299,386; 5,311,628; 5,323,503; 5,375,965; 5,440,772; 5,442,825; 5,453,735; 5,531,557; 5,546,623; 5,553,987; 5,582,498; 5,664,930; 5,702,223; 5,762,459 (RE: 37,570); 5,882,167; 5,964,572; 6,010,297; 6,065,172; 6,070,283; 6,074,157; 6,085,375; 6,092,970; 6,106,212; 6,116,839; 6,190,109; 6,220,809; 6,627,016; 6,238,163; 6,322,310; 6,311,352; 6,360,394; 6,368,043; and pending U.S. and foreign patent applications. RITE-HITE®, LEVEL-RITE™, GUARDRITE®, SAFE-T-LIP®, HYDRACHEK®, WHEEL-LOK™, DOK-LOK®, DUAL-DOK®, and SAFE-T-GATE® are trademarks of RITE-HITE® Corporation.

SAFETY WARNINGS



WARNING

When working with electrical or electronic controls, make sure that the power source has been locked out and tagged according to OSHA regulations and approved local electrical codes.

LOCKOUT/TAGOUT PROCEDURES

The Occupational Safety and Health Administration requires that, in addition to posting safety warnings and barricading the work area, including but not limited to trucking office and loading docks, that the power supply has been locked in the OFF position or disconnected. It is mandatory that an approved lockout device is utilized. An example of a lockout device is illustrated. The proper lockout procedure requires that the person responsible for the repairs is the only person who has the ability to remove the lockout device.

In addition to the lockout device, it is also a requirement to tag the power control in a manner that will clearly note that repairs are underway and state who is responsible for the lockout condition. Tagout devices have to be constructed and printed so that exposure to weather conditions or wet and damp locations will not cause the tag to deteriorate or become unreadable.

RITE-HITE Corporation does not recommend any particular lockout device, but recommends the utilization of an OSHA approved device (refer to OSHA regulation 1910.147). Rite-Hite Corporation also recommends the review and implementation of an entire safety program for the Control of Hazardous Energy (Lockout/Tagout). These regulations are available through OSHA publication 3120.

DANGER

This is the highest level statement. Failure to follow the listed instructions will most likely result in severe injury or death.

CAUTION

The statements used with this level of warning deal with a safe operating procedure. If the procedure is ignored, the possibility of personal injury may exist.

WARNING

This is a statement of serious hazard. Failure to follow the listed instructions could place the individual at risk of serious injury or death.

IMPORTANT

IMPORTANT is used to draw attention to a procedure that needs to be followed to prevent machine or property damage.

SAFETY DEVICES

DANGER

Never be under the RH-1000 platform or lip without:

- Engaging the SAFE-T-STRUT™. See below right. This can be done with the assistance of another person by:
 - Activate leveler by pulling and holding the ramp control release chain until platform reaches its highest position until lip extends.
 - Then have assistant insert the smaller end of the SAFE-T-STRUT™ through the hole in the middle of the leveler lip and place the strut's broader open end over the pin located on the leveler's front frame. Align the holes on the pin and the SAFE-T-STRUT™ so that the leveler may be locked and tagged out with the retaining pin and chain.

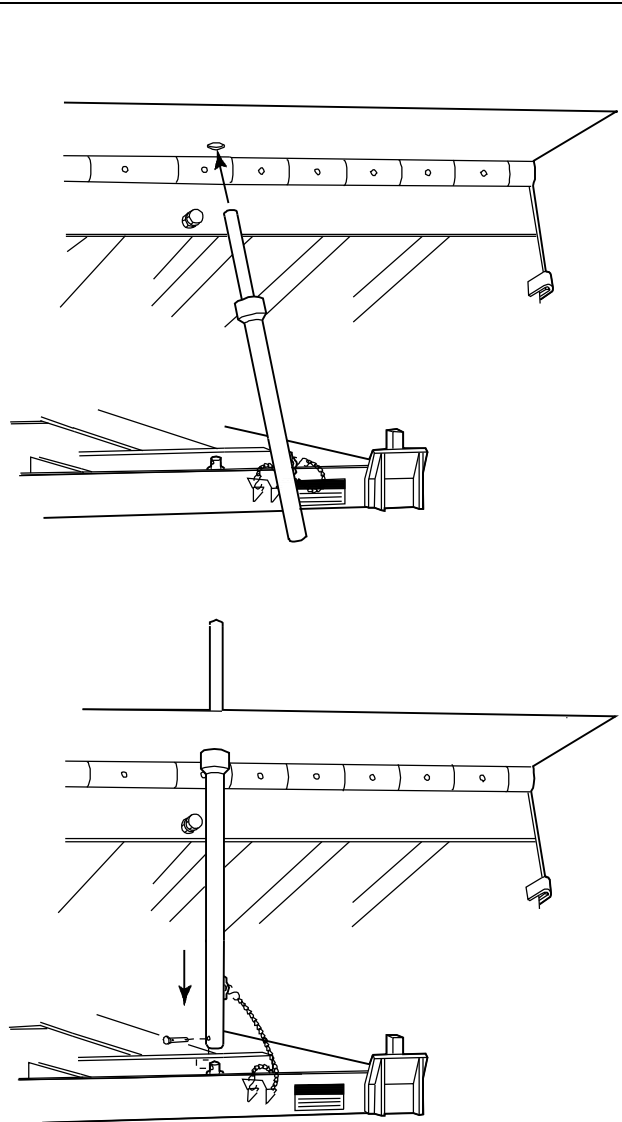
NOTE: Lip will begin to fall off.

Remove the SAFE-T-STRUT™.

- For SAFE-T-STRUT™ removal, release the safety clip and remove the retaining pin. Lift the strut off base, and remove strut from lip. Return the SAFE-T-STRUT™ to the proper storage position.
- If you are unable to install the SAFE-T-STRUT™ properly, contact your authorized RITE-HITE® Service Representative or RITE-HITE® Customer Service at 1-800-456-0600.

CAUTION

- Post warnings and barricades at dock level and at drive level to indicate that work is being done around and under the leveler platform.



ENGAGE SAFE-T-STRUT™

OWNER RESPONSIBILITY

1. The owner should recognize the inherent danger of the interface between dock and transport vehicle. The owner should, therefore, train and instruct operators in the safe use of dock equipment in accordance with the information provided below. The manufacturer shall publish, provide to the initial purchaser, and make the following information readily available to owners:
 - Installation instructions
 - Recommended initial and periodic inspections procedures
 - Maintenance procedures
 - Operating instructions
 - Descriptions or specifications for replaceable or repairable parts
 - Tables identifying the grade (slope) for all variations of length or configuration of the dock equipment, and
 - Information identifying the maximum uncontrolled drop encountered upon sudden removal of support while within the working range of the equipment.

It shall be the responsibility of the owner to verify that the material listed in this section has been received and that it is made available for the instruction and training of personnel entrusted with the use or maintenance of the dock equipment.
2. When a transport vehicle is parked at a loading dock, it is important that the vehicle is relatively perpendicular to the dock face and in close contact with at least one of the dock bumpers.
3. Nameplates, cautions, instructions, and posted warnings shall not be obscured from the view of operating or maintenance personnel for whom such warnings are intended.
4. Manufacturer's recommended periodic maintenance and inspection procedures in effect at date of shipment shall be followed, and written records of the performance of these procedures should be kept.
5. As with any piece of machinery, dock equipment requires routine maintenance, lubrication, and adjustments. Your local RITE-HITE® representative offers owners the option of a Planned Maintenance Program (P.M.P.). As part of this service, your local RITE-HITE® representative will do all routine maintenance, lubrication, and adjustments.
6. Dock equipment that is structurally damaged shall be removed from service, inspected by a manufacturer's authorized representative, and repaired as needed before being placed back in service.
7. The manufacturer shall make available replacement nameplates, caution/instruction labels, and operating/maintenance manuals upon request of the owner. The owner shall see that all nameplates, caution/instruction markings or labels are in place and legible, and that the appropriate operating/maintenance manuals are provided to users.
8. Modifications or alterations of dock equipment shall be made only with written permission of the original manufacturer. These changes shall also satisfy all safety recommendations of the original equipment manufacturer for the particular application of the dock equipment.
9. When industrial trucks are driven on and off transport vehicles during the loading and unloading operation, the brakes on the transport vehicle shall be applied and wheel chocks or a positive restraining device shall be engaged.
10. In selecting dock equipment, it is important to consider not only present requirements but also future plans or adverse environments.

INSTALLATION INSTRUCTIONS

DANGER

Never be under an unsecured dock leveler. Serious injury or death could occur. When installing, maintaining, or adjusting your dock leveler, always be sure to insert a safety strut.

CAUTION

Be sure to follow these caution notes when installing your RH-1000®.

1. **DO NOT** attach welding ground to platform. Damage to bearings or cam followers will occur.
2. Tack a small piece of stock to pit steel for welder ground while welding unit into pit.

WARNING

1. **DO NOT** position the leveler on its side or turn the leveler top side down at any time.
2. Post safety warnings and barricade work area, at dock level and at ground level, to prevent unauthorized use of the dock position before installation has been completed.

PREPARATION PRIOR TO INSTALLATION

1. Check pit against certified installation drawings.
2. Leave shipping bands in place on the RH-1000® until instructed to remove.
3. Make sure that the lifting unit, or picker crane, is capable of handling 3,000 lbs.
4. Clean pit of all debris.

INSTALLATION PROCEDURES

1. Position RH-1000® in the pit using an appropriate lifting device, chain, and handling plate. Make sure that there is a minimum of 1½" clearance between the sides of the leveler and the pit wall. See Figure 1.
2. Remove shipping bands and allow the leveler to float to the "at rest" position. Measure along the back edge of the leveler and the embedded pit curb angle to determine the amount of shimming required. Fully raise the leveler by pulling and holding the ramp control release lanyard. The lip will fully extend and then fall to the pendant position.

WARNING

1. **DO NOT** stand in front of shipping bands when cutting them. Bands are under tension. Stand to one side.
2. **Make sure** to insert the maintenance strut before proceeding with any installation or repair work.
3. **DO NOT** attach welding ground to the platform. Damage to the bearings or cam followers will occur.

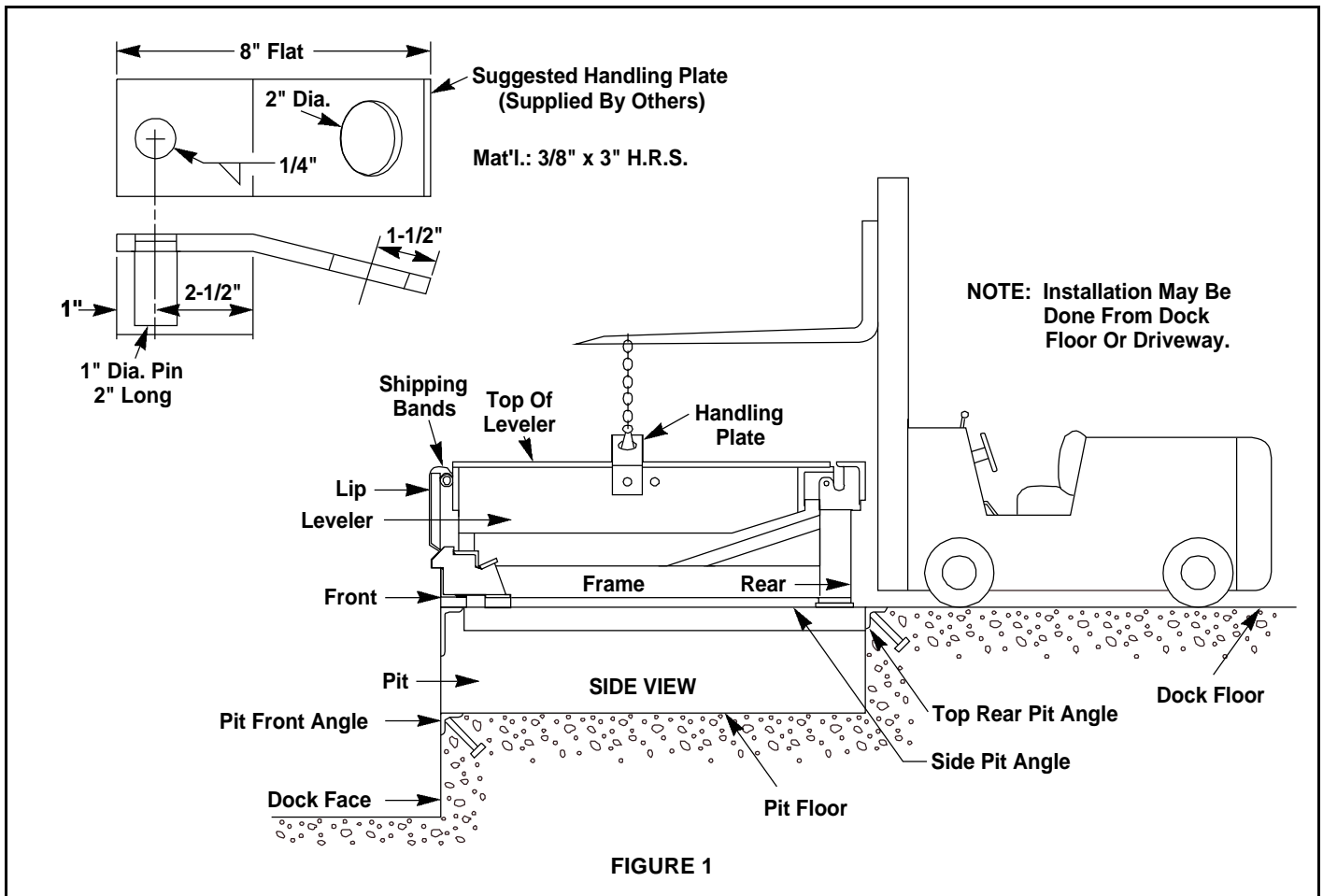
- Remove weatherseal (optional) from subframe if supplied.

NOTE

Side weatherseal is secured inside the frame for shipping.

- Align the top edge of the leveler flush with the dock floor. Tack weld the rear edge of the leveler frame to the embedded pit angle. Add shims under each rear post as required for complete support between the leveler frame and pit floor. Tack weld all shims and the leveler frame together (Figure 2).
- Tack weld the rear edge of the leveler frame to the embedded pit angle. See Figure 2.
- Tack weld all shims and the leveler frame together.
- Remove the safety strut, store in proper location on the framework, and return the leveler to the stored position.

- Measure the amount of shimming required at both of the front corners of the leveler to raise the leveler flush with the dock floor. Shim the front of the leveler underneath the emergency safety stop pedestals as required.
- Tack weld all shims and the leveler frame together. Raise the leveler, insert the maintenance strut, and finish welding all shims.
- Weld the front edge of the leveler frame to the embedded pit steel.
- Remove the shipping clips from the optional full range toe guards if supplied. Remove shipping hooks from the front of the frame angle.
- Clean and paint all welds.
- Test operate the leveler according to the instructions in the Operating Instructions section of this manual. Make sure that the unit operates correctly. If the unit does not operate correctly, see page 7 for leveler adjustments.
- Install bumpers as shown in Figure 2. Securely weld or bolt into position.



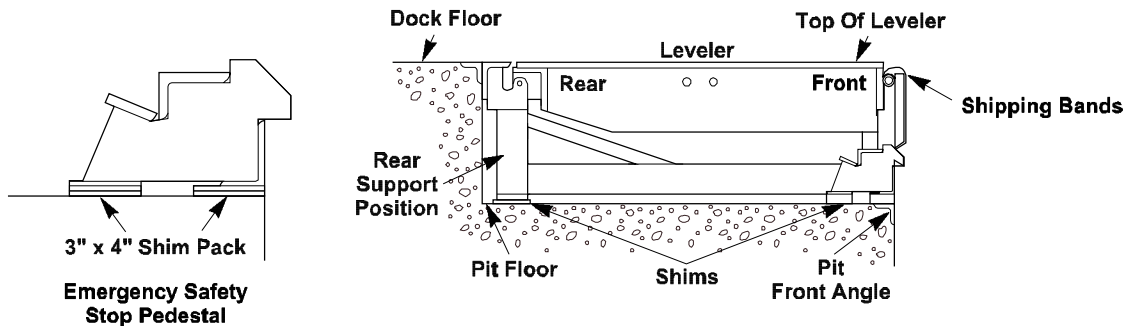
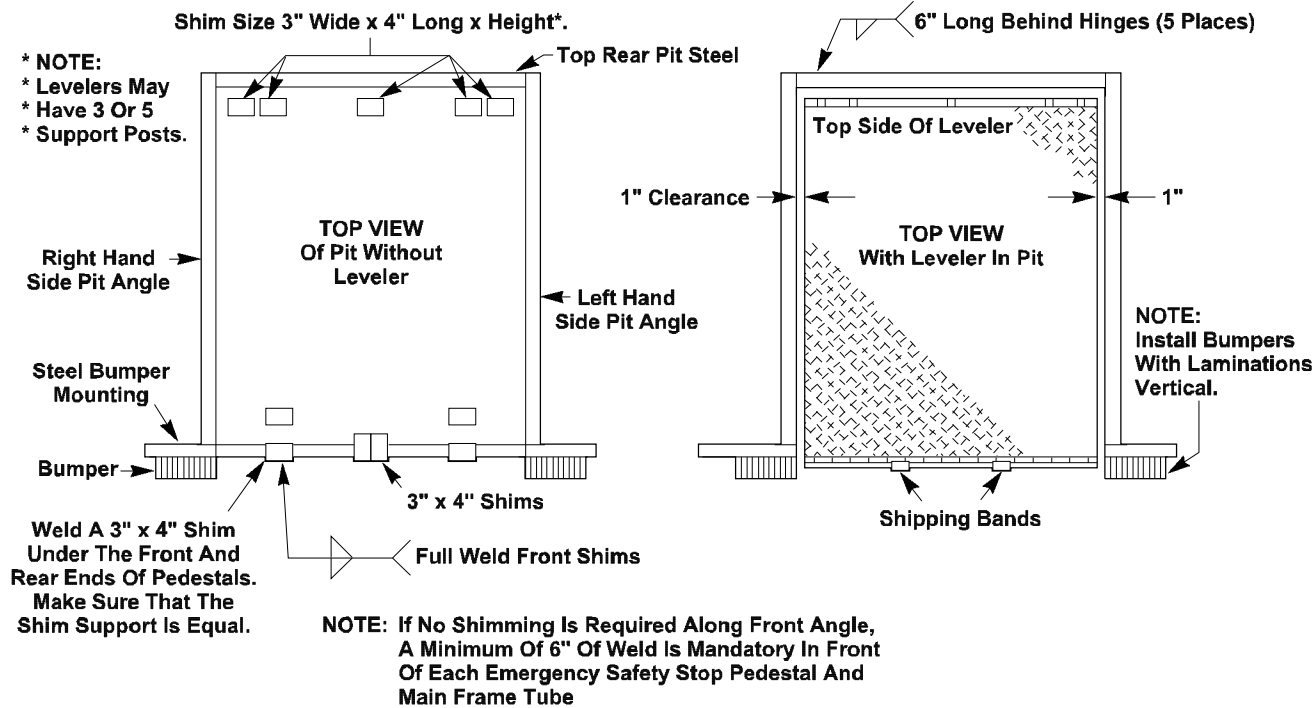


FIGURE 2

OPERATING INSTRUCTIONS

NOTE:

End loads at dock level and above can be handled with the leveler in its stored position.

DANGER

DO NOT operate dock leveler with anyone standing in front of the dock leveler.

WARNING

Be sure to follow these warning notes when operating your leveler.

- **DO NOT** operate until truck is parked in place against the dock bumpers or damage may occur.
- The wheels of the truck/trailer must be blocked and/or the truck/trailer locked to the dock with a trailer restraint to prevent the possibility of the truck/trailer rolling away from the dock.
- Remove wheel chocks and/or release the trailer restraint only when loading or unloading is finished.
- Always return platform to the stored position when it is not being used for loading or unloading.
- At every 90 day lubrication period, inspect your dock leveler to ensure that there are no broken or worn parts which could cause injury to personnel or damage to equipment.
- If a malfunction does occur, always call your authorized RITE-HITE® service representative immediately.

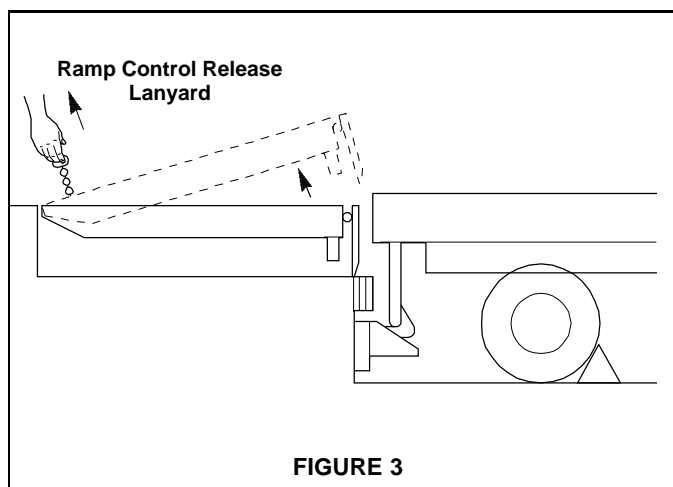
NORMAL OPERATION

1. Activate the leveler by pulling and holding the ramp control release lanyard until the platform is at the highest position, and the lip is extended. Release lanyard. Refer to Figures 3 and 4.

2. Walk on the platform to the outer edge (do not walk on lip). The platform will lower until the lip contacts the truck bed. Be sure the lip is in full contact with the truck bed. Refer to Figure 5.
3. When the truck departs, the lip will fall to the fully pendant position behind the dock bumpers.
4. If the platform is higher than dock level, walk on the platform to return it to dock level. See Figure 6.
5. If the platform is lower than dock level, pull the ramp control release lanyard until platform is 2 inches to 3 inches above dock level. Walk on platform to return it to dock level.

CAUTION

Always check to make sure that the emergency safety stops are in the safe (forward) position. Platform is now ready to safely carry dock traffic. Refer to Figure 6



BELOW DOCK OPERATION

1. To service trucks with beds lower than the dock level, activate the leveler by pulling and holding the ramp control release lanyard until the platform is at the highest position and the lip is fully extended. Release the lanyard. See Figure 4.
2. Walk onto the platform to the front edge. Pull and hold the emergency safety stop chain to retract the emergency safety stops. This will permit the platform to lower until the lip contacts the truck bed. See Figure 7.

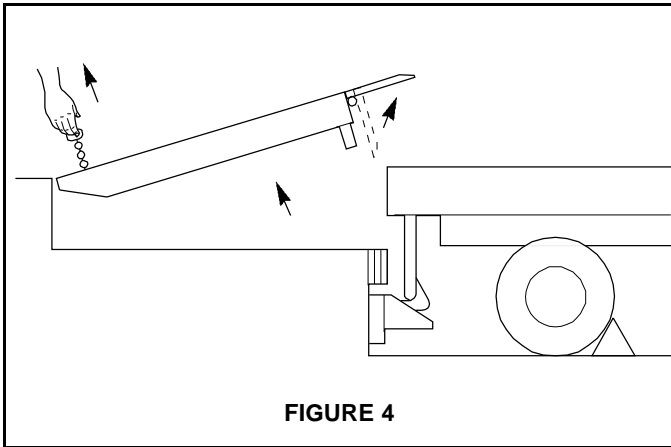


FIGURE 4

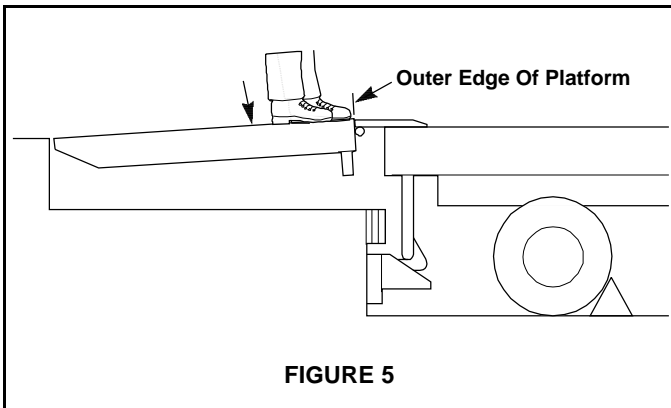


FIGURE 5

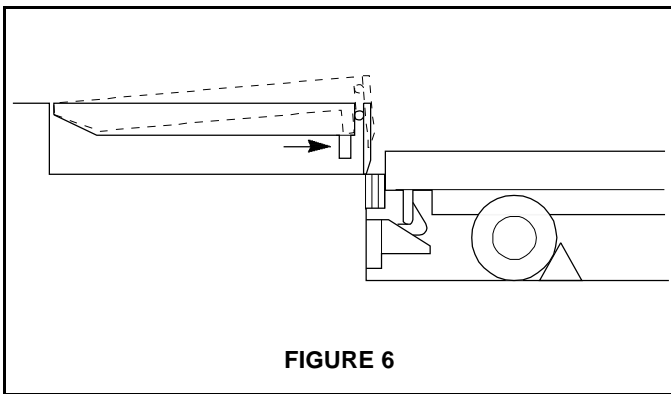


FIGURE 6

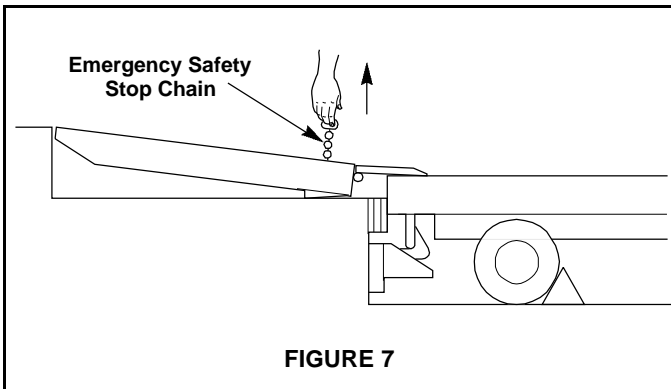


FIGURE 7

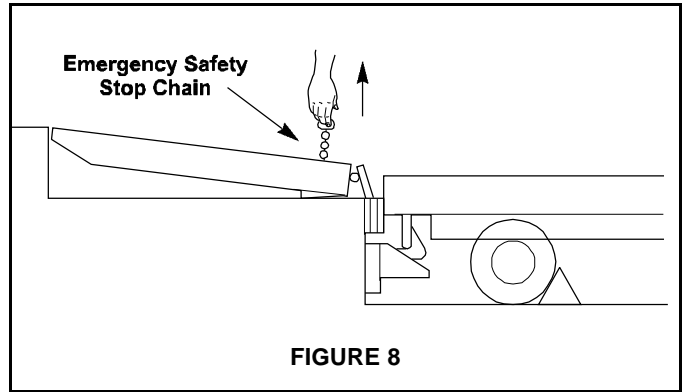


FIGURE 8

3. After the lip is in full contact with the truck bed release the emergency safety stop chain.
4. After the truck departs, the lip will fall to the pendant position. Pull and hold the ramp control release lanyard until the platform is above the dock height. Release the lanyard and walk the platform to the normal stored position.

BELOW DOCK END LOAD OPERATION

1. To service trucks with end loads, activate the leveler by pulling the ramp control release lanyard repeatedly (jog the chain) until the platform has raised 12" to 14" and the lip is pendant. Release the lanyard.
2. Walk onto the platform to the front edge. Pull and hold the emergency safety stop chain to retract the emergency safety stops. Walk the leveler down until the platform is fully in the below dock position.
3. After the leveler is in the below dock position with the lip pendant, release the emergency safety stop chain. See Figure 8.
4. As soon as possible, reset the platform for Normal Operation. Pull and hold the ramp control release lanyard until the platform is fully raised and the lip has extended. Release the ramp control release lanyard and walk the platform down to the normal operation position.

AFTER LOADING/UNLOADING

1. Remove wheel chocks and/or release the trailer restraint only when loading or unloading is finished.
2. Pull and hold the ramp control release lanyard until the leveler is above the dock floor. Walk the leveler down until it is in the normal stored position, flush with the dock floor.

MAINTENANCE PROCEDURES

DANGER

Never be under an unsecured dock leveler. Serious injury or death could occur. When installing, maintaining, or adjusting your dock leveler, always be sure to insert a safety strut.

Daily

1. Remove all debris from the dock leveler and pit area. Make sure that the lip hinges are free of debris.
2. Operate the leveler to verify that it is working correctly. See Operating Instructions in this manual for operating procedures.

90 Days

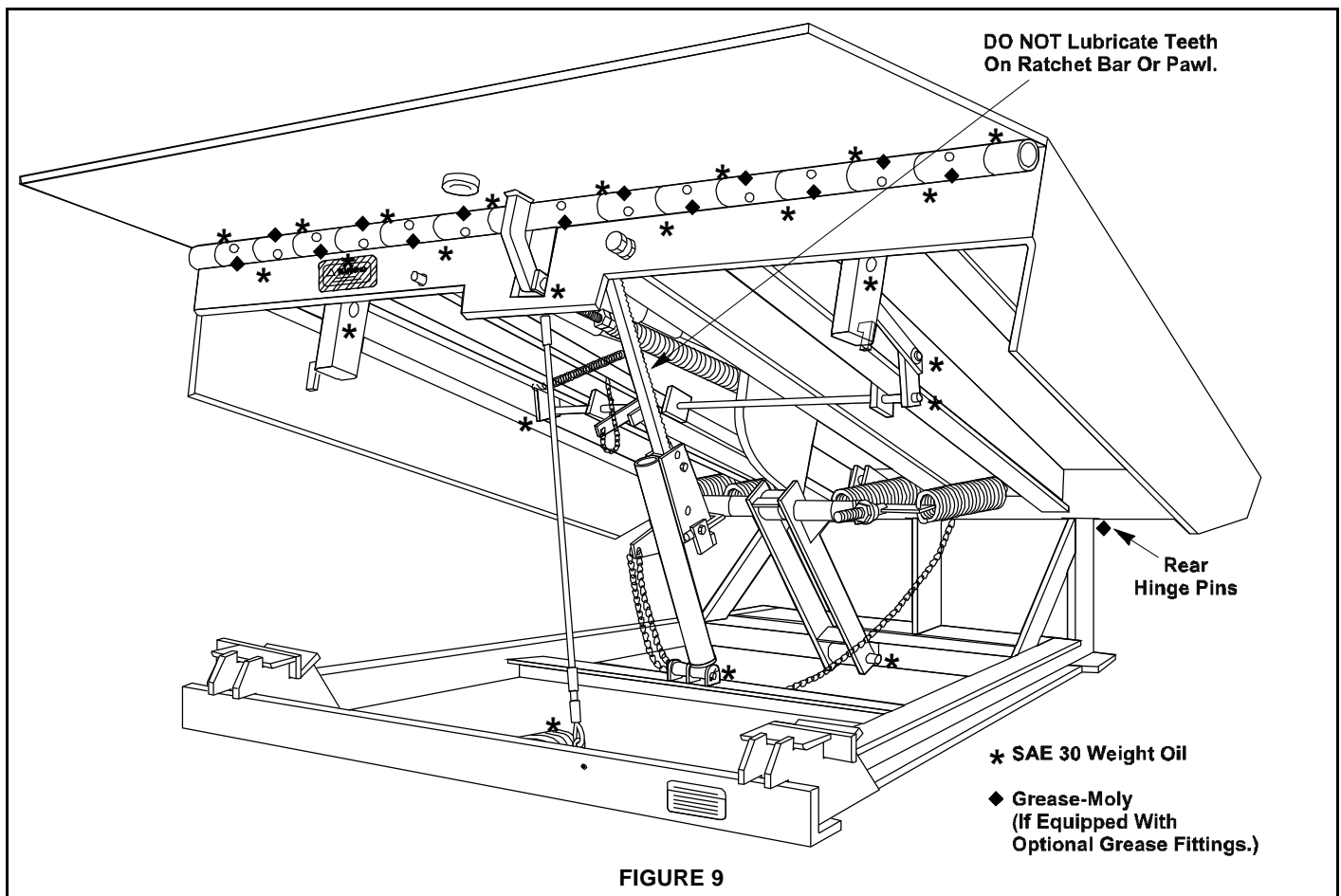
1. Perform all Daily maintenance procedures.

WARNING

- Post safety warnings and barricade work area, at dock level and at ground level, to prevent unauthorized use of the dock position before installation has been completed.

- Make sure to insert the maintenance strut before proceeding with any installation or repair work.

2. Lubricate the leveler at all points as shown in Figure 9 with the indicated oil or grease. If the leveler is equipped with the optional grease fittings, use moly grease. In all other cases, use SAE 30 weight oil.



ADJUSTMENTS

Lip Assist Spring Adjustment

WARNING

Make sure to insert the maintenance strut when making the lip assist spring adjustment.

1. Proper adjustment of the lip assist spring is defined as “the condition of maximum spring compression that permits the lip to fall of its own weight to the fully pendant position.”
2. To adjust the lip assist spring, release the lock nut and advance the adjustment nut clockwise to produce maximum compression on the spring while still allowing the lip to fall. See Figure 10.
3. Back off the adjustment nut until the lip, when dropped from the fully extended position, barely overcomes the spring tension and falls to the pendant position. Tighten the lock nut to secure the adjustment.

Main Extension Spring Adjustment

DANGER

NEVER REMOVE adjustment nuts from main spring adjustment rod. Serious injury or death will occur.

WARNING

- **Make sure to insert the maintenance strut when making the main extension spring adjustment.**
- **Refer to operating instructions – follow all CAUTIONS and WARNINGS prior to activating your dock leveler.**

1. Proper adjustment of the main extension springs is defined as “the condition of minimum spring tension required for the platform to rise with sufficient speed to completely extend the lip at the upper limit of platform travel.”
2. Lower (walk) the platform to the level dock position. Activate the leveler by pulling the ramp control release lanyard and watch the action of the lip.
3. If the lip does not fully extend at the upper limit of platform travel, increase the tension on the main extension springs, as shown in Figure 10, by advancing the two adjustment nuts on the spring adjustment rod clockwise. Adjustment should be made in small increments equally to each adjustment nut (i.e., 1/2 of a turn at a time on both spring adjustment rods). Continue advancing the nuts until the adjustment is correct as defined in Step 1.

IMPORTANT

Be sure the adjustment on both spring adjustment rods is equal by measuring the length of exposed threads on the rods.

4. If the lip extends violently at the upper limit platform travel, decrease the tension on the two spring adjustment rods. Turn the nuts counterclockwise. This adjustment should also be made in small equal increments (i.e., 1/2 turn at a time). Continue backing off the nuts until the adjustment is correct as defined in Step 1.

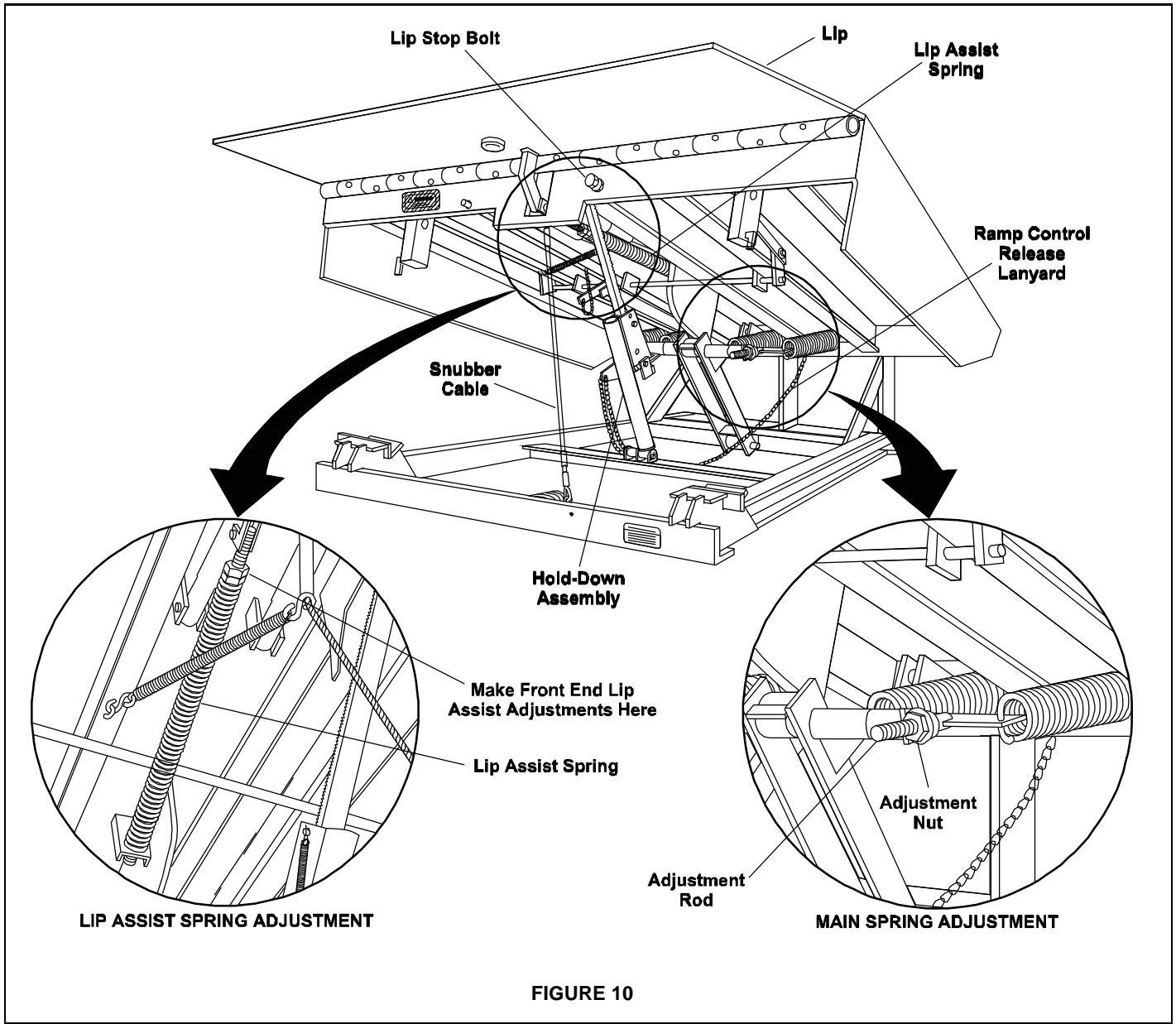


FIGURE 10

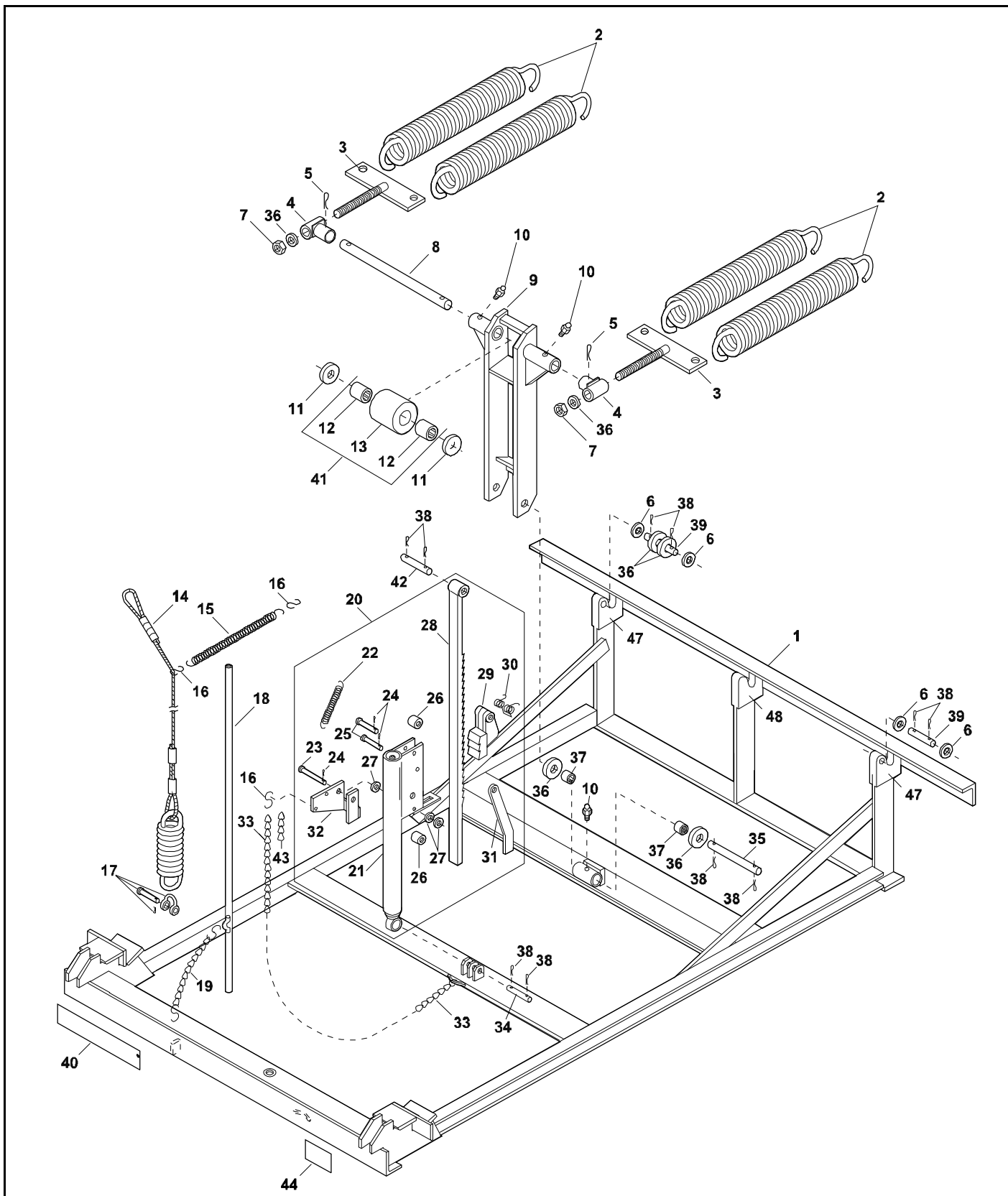
TROUBLESHOOTING

Problem	Probable Cause	Remedy
1. Lip will not extend.	<p>Snubber cable is disconnected or broken.</p> <p>Lip assist spring out of adjustment.</p> <p>Platform did not rise fully.</p> <p>Lack of lubrication.</p>	<p>Replace or rehook cable.</p> <p>Adjust lip assist spring. See adjustment procedures.</p> <p>Adjust main springs. See adjustment procedures.</p> <p>Lubricate lip hinge pin. See maintenance procedures.</p>
2. Lip is partially extended.	<p>Snubber cable is caught or catching on obstruction.</p> <p>Platform did not rise fully.</p> <p>Lip assist spring out of adjustment.</p> <p>Lack of lubrication.</p>	<p>Remove obstruction.</p> <p>Adjust main springs. See adjustment procedures.</p> <p>Adjust lip assist spring. See adjustment procedures.</p> <p>Lubricate lip hinge pin. See maintenance procedures.</p>
3. Lip remains fully extended.	<p>Lip assist spring out of adjustment (too tight).</p> <p>Lip assist rod binding.</p> <p>Damaged Hydrachek®.</p> <p>Lack of lubrication.</p> <p>Lip hinge binding.</p>	<p>Adjust lip assist spring. See adjustment procedures.</p> <p>Check for obstructions.</p> <p>Replace Hydrachek®.</p> <p>Lubricate lip hinge pin. See adjustment procedures.</p> <p>Check for obstructions.</p>
4. Lip will not fall in the below dock position only.	<p>Lip assist spring out of adjustment (too tight).</p> <p>Lip assist rod binding.</p> <p>Lack of lubrication.</p> <p>Damaged Hydrachek®.</p>	<p>Adjust lip assist spring. See adjustment procedures.</p> <p>Check for obstructions.</p> <p>Lubricate lip hinge pin. See maintenance procedures.</p> <p>Replace Hydrachek®.</p>
5. Platform does not raise when ramp control release lanyard is pulled and held.	<p>Broken or unhooked ramp control release lanyard.</p> <p>Bent or damaged weatherseal channel.</p> <p>Lack of lubrication.</p> <p>Main springs broken or out of adjustment.</p> <p>Debris wedged between platform and pit wall.</p>	<p>Replace or rehook ramp control release lanyard.</p> <p>Replace weatherseal channel.</p> <p>Lubricate hinge pins. See maintenance procedures.</p> <p>Replace or adjust tension.</p> <p>Remove debris.</p>
6. Emergency safety stops do not land on pedestal.	<p>Emergency safety stop landing pedestal not shimmed properly.</p> <p>Emergency safety stop not returning to proper position.</p> <p>Lack of lubrication.</p>	<p>Check for proper shimming.</p> <p>Check for damaged return spring.</p> <p>Check for side impact on leveler to determine if leveler has been shifted in pit.</p> <p>Check for damaged or binding linkage.</p> <p>Perform maintenance procedures.</p>

TROUBLESHOOTING (cont.)

Problem	Probable Cause	Remedy
7. Emergency safety stops do not retract for below dock operation.	Night lock prevents emergency safety stops from retracting. Damaged or binding linkage. Broken or unhooked emergency safety stop chain. Lack of lubrication.	Raise leveler 2" above dock level to clear night lock, pull and hold emergency safety stop chain. Repair or replace linkage. Replace or rehook emergency safety stop chain. Perform maintenance procedures.
8. Leveler is hard to walk down.	Excessive main spring tension. Pit wall interference. Lack of lubrication on lifter arm bearing and cam roller. Bent ratchet bar.	Adjust main spring. See main spring adjustment procedures. Realign leveler in pit for equal clearance. Lubricate lifter arm bearing and cam roller. Replace if worn. Replace ratchet bar.
9. Ramp control release lanyard is hard to pull.	Release crank binding. Debris obstructing ramp control release lanyard. Ramp control release lanyard binding or not routed properly.	Lubricate release crank. Remove debris. Check for proper chain routing.
10. Leveler will not go below dock.	Emergency safety stops will not retract. Debris in pit. Lifter arm binding.	See page 9, number 7. Clean and lubricate. Bearings failed. Replace bearings and lubricate with new pivot shaft.
11. Leveler pops up unexpectedly.	Ramp control release lanyard may be impaired and/or twisted. Worn teeth on pawl and upper bar. Lanyard linkage may be jammed.	Fix chain and remove debris. Replace the pawl and upper bar. Lubricate and check for debris.

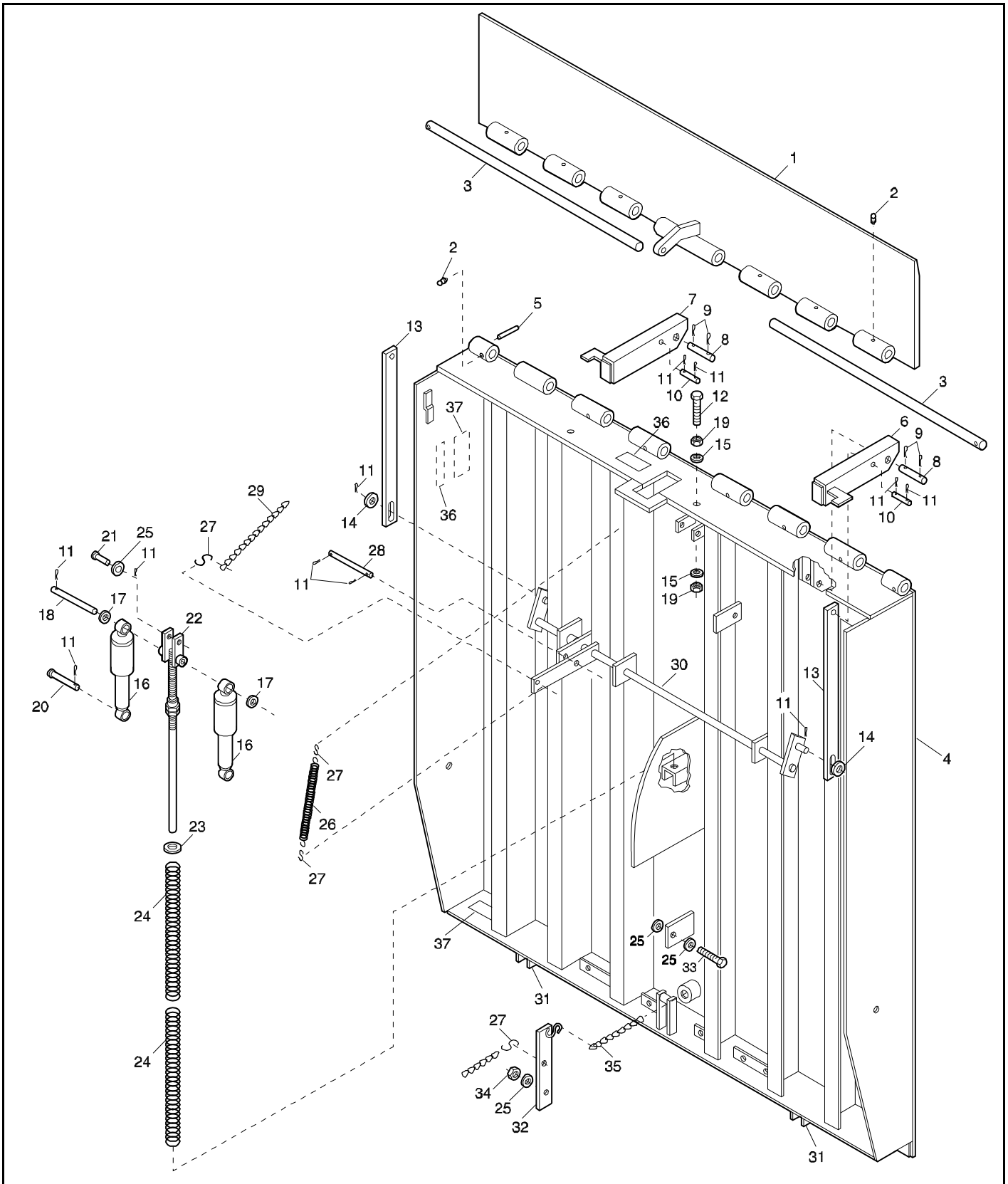
FRAME REPLACEMENT PARTS



FRAME REPLACEMENT PARTS LIST

Item	Qty.	Description	20M Capacity			25M Capacity			35M Capacity		
			6' L x 6' W	6' L x 6-1/2' W	6' L x 7' W	8' L x 6' W	8' L x 6-1/2' W	8' L x 7' W	10' L x 6' W	10' L x 6-1/2' W	10' L x 7' W
1	1	Frame 20M & 25M	6561	6562	6563	6567	6568	6569	6573	6574	6575
1	1	Frame 35M	6564	6565	6566	6570	6571	6572	6576	6577	6578
2	See P/N	Ramp Extension Spring 20M	52101 (4)	52101 (4)	52101 (4)	52100 (4)	52100 (4)	52101 (6)	52100 (8)	52100 (8)	52100 (8)
2	See P/N	Ramp Extension Spring 25M	52100 (4)	52100 (4)	52100 (4)	52120 (4)	52120 (4)	52100 (6)	52100 (8)	52100 (8)	52100 (8)
2	See P/N	Ramp Extension Spring 35M	52100 (4)	52100 (4)	52100 (4)	52100 (6)	52100 (6)	52100 (6)	52100 (8)	52100 (8)	52100 (8)
3	2	Spring Adjusting Rod 20M & 25M	6096	6096	6096	6059	6059	6056	6034	6034	6034
3	2	Spring Adjusting Rod 35M	6096	6096	6096	6056	6056	6056	6034	6034	6034
4	2	Spring Anchor Tube	6030	6030	6030	6030	6030	6030	6030	6030	6030
5	2	Cotter Pin 2-1/2" Long	51912	51912	51912	51912	51912	51912	51912	51912	51912
6	4	Bushing 20M & 25M	51730	51730	51730	51730	51730	51730	51730	51730	51730
6	9	Bushing 35M	51730	51730	51730	51730	51730	51730	51730	51730	51730
7	2	Hex. Nut	51522	51522	51522	51522	51522	51522	51522	51522	51522
8	1	Axle Shaft 20M & 25M	50796	50796	50796	50799	50799	50797	50796	50796	50796
8	1	Axle Shaft 35M	50796	50796	50796	50797	50797	50797	50796	50796	50796
9	1	Lifter Arm 20M & 25M	6095	6095	6095	6093	6093	6094	6095	6095	6095
9	1	Lifter Arm 35M	6095	6095	6095	6094	6094	6094	6095	6095	6095
10	3	Grease Fitting	51169	51169	51169	51169	51169	51169	51169	51169	51169
11	2	Bushing	51729	51729	51729	51729	51729	51729	51729	51729	51729
12	2	Needle Bearing	52311	52311	52311	52311	52311	52311	52311	52311	52311
13	1	Cam Roller	52713	52713	52713	52713	52713	52713	52713	52713	52713
14	1	Snubbing Cable Assembly	8019	8019	8019	8018	8018	8018	8020	8020	8020
15	1	Snubbing Cable Spring	52106	52106	52106	52106	52106	52106	52106	52106	52106
16	3	"S" Hook	51102	51102	51102	51102	51102	51102	51102	51102	51102
17	1	Snubber Shackle	51137	51137	51137	51137	51137	51137	51137	51137	51137
18	1	Maintenance Strut	5393	5393	5393	5394	5394	5394	5394	5394	5394
19	1	Maintenance Strut Chain Assembly	8062	8062	8062	8062	8062	8062	8062	8062	8062
20	1	Ramp Control Assembly (Includes Items 21-32)	504	504	504	505	505	505	506	506	506
21	1	Ramp Control Housing	5018	5018	5018	5018	5018	5018	5018	5018	5018
22	1	Lever Spring	52111	52111	52111	52111	52111	52111	52111	52111	52111
23	1	Headed Clevis Pin 3-1/2" Long	52417	52417	52417	52417	52417	52417	52417	52417	52417
24	3	Cotter Pin 1" Long	51901	51901	51901	51901	51901	51901	51901	51901	51901
25	2	Headed Clevis Pin 2-5/16" Long	52418	52418	52418	52418	52418	52418	52418	52418	52418
26	2	Roller	52702	52702	52702	52702	52702	52702	52702	52702	52702
27	3	Flat Washer	51709	51709	51709	51709	51709	51709	51709	51709	51709
28	1	Ratchet Bar	5016	5016	5016	5015	5015	5015	5019	5019	5019
29	1	Ratchet Pawl	5014	5014	5014	5014	5014	5014	5014	5014	5014
30	1	Torsion Spring	52200	52200	52200	52200	52200	52200	52200	52200	52200
31	1	Lever Handle	50854	50854	50854	50854	50854	50854	50854	50854	50854
32	1	Lever	5020	5020	5020	5020	5020	5020	5020	5020	5020
33	1	Ramp Control Release Chain	56656	56656	56656	55627	55627	55627	55627	55627	55627
34	1	Ramp Control Bottom Pin	52604	52604	52604	52604	52604	52604	52604	52604	52604
35	1	Lifter Arm Pin	52616	52616	52616	52616	52616	52616	52616	52616	52616
36	6	Washer	51721	51721	51721	51721	51721	51721	51721	51721	51721
37	2	Needle Bearing	52312	52312	52312	52312	52312	52312	52312	52312	52312
38	10	Cotter Pin 1-1/2" 20M	51907	51907	51907	51907	51907	51907	51907	51907	51907
38	See P/N	Cotter Pin 1-1/2" 25M	51907 (10)	51907 (10)	51907 (10)	51907 (10)	51907 (10)	51907 (10)	51907 (14)	51907 (14)	51907 (14)
38	14	Cotter Pin 1-1/2" 35M	51907	51907	51907	51907	51907	51907	51907	51907	51907
39	2	Ramp Hinge Pin 20M & 25M	52630	52630	52630	52630	52630	52630	52630	52630	52630
39	4	Ramp Hinge Pin 35M	52630	52630	52630	52630	52630	52630	52630	52630	52630
40	1	RITE-HITE® Logo Decal	54100	54100	54100	54100	54100	54100	54100	54100	54100
41	1	Cam Follower Assembly (Includes Items 12-13)	6032	6032	6032	6032	6032	6032	6032	6032	6032
42	1	Headless Clevis Pin (Ramp Control Top)	52618	52618	52618	52618	52618	52618	52618	52618	52618
43	1	Ramp Control Release Chain	56770	56770	56770	56762	56762	56762	56769	56769	56769
44	1	Caution Decal	59055	59055	59055	59055	59055	59055	59055	59055	59055
45	1	Fork Lift Truck Handling Decal (Not Shown)	59141	59141	59141	59141	59141	59141	59141	59141	59141
46	1	Operation Sign (Not Shown)	59018	59018	59018	59018	59018	59018	59018	59018	59018
47	2	Hinge Bearing 20M & 25M	54500	54500	54500	54500	54500	54500	54500	54500	54500
47	4	Hinge Bearing 35M	54500	54500	54500	54500	54500	54500	54500	54500	54500
48	See P/N	Support Bearing 20M & 25M	54501 (1)	54501 (1)	54501 (3)	54501 (1)	54501 (1)	54501 (3)	54501 (1)	54501 (1)	54501 (3)
48	1	Support Bearing 35M	54501	54501	54501	54501	54501	54501	54501	54501	54501

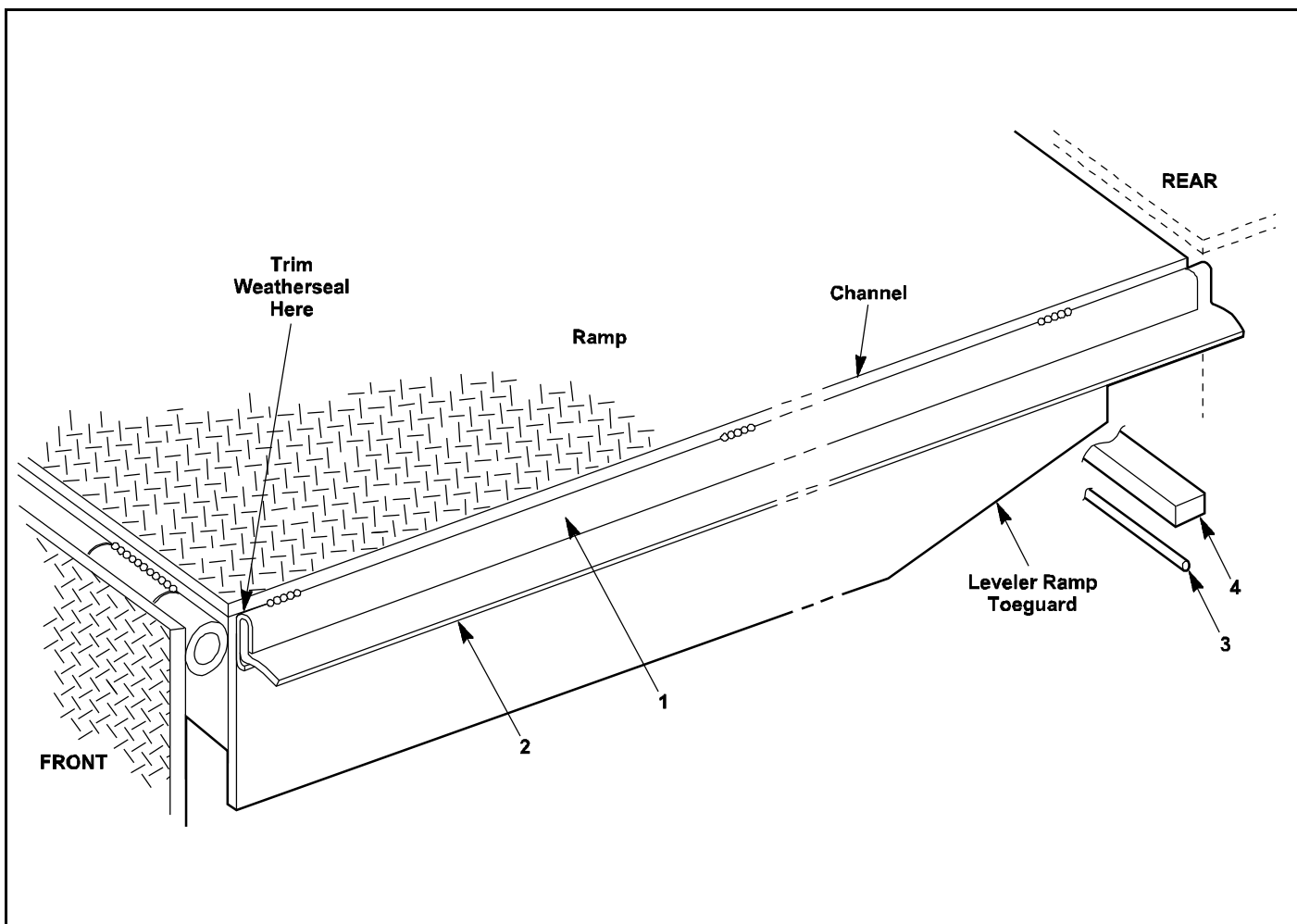
PLATFORM REPLACEMENT PARTS



PLATFORM REPLACEMENT PARTS LIST

Item	Qty.	Description	20M Capacity			25M Capacity			35M Capacity		
			6' L x 6' W	6' L x 6-1/2' W	6' L x 7' W	8' L x 6' W	8' L x 6-1/2' W	8' L x 7' W	10' L x 6' W	10' L x 6-1/2' W	10' L x 8' W
1	1	Lip 16" 20M	2644	2645	2646	2644	2645	2646	2644	2645	2646
1	1	Lip 16" 25M	2635	2636	2637	2635	2636	2637	2635	2636	2637
1	1	Lip 16" 35M	2626	2627	2628	2626	2627	2628	2626	2627	2628
1	1	Lip 18" 20M	2647	2648	2649	2647	2648	2649	2647	2648	2649
1	1	Lip 18" 25M	2638	2639	2640	2638	2639	2640	2638	2639	2640
1	1	Lip 18" 35M	2629	2630	2631	2629	2630	2631	2629	2630	2631
1	1	Lip 20" 20M	2650	2651	2652	2650	2651	2652	2650	2651	2652
1	1	Lip 20" 25M	2641	2642	2643	2641	2642	2643	2641	2642	2643
1	1	Lip 20" 35M	2632	2633	2634	2632	2633	2634	2632	2633	2634
2	See P/N	Grease Fitting (Optional)	51169 (13)	51169 (15)	51169 (15)	51169 (13)	51169 (15)	51169 (15)	51169 (13)	51169 (15)	51169 (15)
3	2	Lip Hinge Pin 20M & 25M	50785	54946	50789	50785	54946	50789	50785	54946	50789
3	2	Lip Hinge Pin 35M	54902	54947	54903	54902	54947	54903	54902	54947	54903
4*	1	Platform 20M	7649	7650	7651	7667	7668	7669	7658	7659	7660
4*	1	Platform 25M	7652	7653	7654	7670	7671	7672	7661	7662	7663
4*	1	Platform 35M	7655	7656	7657	7673	7674	7675	7664	7665	7666
5	2	Lip Hinge Pin Keeper	52805	52805	52805	52805	52805	52805	52805	52805	52805
6	1	Emergency Safety Stop, R.H. 20M & 25M	1587	1587	1587	1587	1587	1587	1587	1587	1587
6	1	Emergency Safety Stop, R.H. 35M	1589	1589	1589	1589	1589	1589	1589	1589	1589
7	1	Emergency Safety Stop, L.H. 20M & 25M	1588	1588	1588	1588	1588	1588	1588	1588	1588
7	1	Emergency Safety Stop, L.H. 35M	1590	1590	1590	1590	1590	1590	1590	1590	1590
8	2	Emergency Safety Stop Pin 3/4" x 3-5/8"	52604	52604	52604	52604	52604	52604	52604	52604	52604
9	4	Cotter Pin 1-1/2" Long	51907	51907	51907	51907	51907	51907	51907	51907	51907
10	2	Emergency Safety Stop Pin 1/2" x 2-15/16"	52614	52614	52614	52614	52614	52614	52614	52614	52614
11	13	Cotter Pin 1" Long	51901	51901	51901	51901	51901	51901	51901	51901	51901
12	1	Lip Stop Bolt	51186	51186	51186	51186	51186	51186	51186	51186	51186
13	2	Emergency Safety Stop Link	54179	54179	54179	54150	54150	54150	54150	54150	54150
14	2	Flat Washer	51700	51700	51700	51700	51700	51700	51700	51700	51700
15	2	Lip Stop Heavy Lockwasher	51814	51814	51814	51814	51814	51814	51814	51814	51814
16	2	Hydrachek® Cylinder	51147	51147	51147	51147	51147	51147	51147	51147	51147
17	4	Washer	51709	51709	51709	51709	51709	51709	51709	51709	51709
18	1	Cylinder Front Mounting Pin	52637	52637	52637	52637	52637	52637	52637	52637	52637
19	2	Lip Stop Hex. Nut	51517	51517	51517	51517	51517	51517	51517	51517	51517
20	2	Cylinder Rear Mounting Pin	52418	52418	52418	52418	52418	52418	52418	52418	52418
21	1	Lip Assist Headed Pin	52409	52409	52409	52409	52409	52409	52409	52409	52409
22	1	Lip Assist Rod	1551	1551	1551	1551	1551	1551	1551	1551	1551
23	1	Bushing	51730	51730	51730	51730	51730	51730	51730	51730	51730
24	2	Lip Assist Spring 16" or 18", 20M	52011	52011	52011	52011	52011	52011	52011	52011	52011
24	2	Lip Assist Spring 16" or 18", 25M or 35M	52014	52014	52014	52014	52014	52014	52014	52014	52014
24	2	Lip Assist Spring 20"	52014	52014	52014	52014	52014	52014	52014	52014	52014
25	5	Washer	51705	51705	51705	51705	51705	51705	51705	51705	51705
26	1	Emergency Safety Stop Return Spring	52103	52103	52103	52106	52106	52106	52106	52106	52106
27	4	"S" Hook	51102	51102	51102	51102	51102	51102	51102	51102	51102
28	1	Lip Push Rod Pin 3/8" x 5-3/4" Long	54918	54918	54918	54918	54918	54918	54918	54918	54918
29	1	Emergency Safety Stop Chain	53202	53202	53202	53202	53202	53202	53202	53202	53202
30*	1	Emergency Safety Stop Linkage	1586	1586	1586	1586	1586	1586	1586	1586	1586
31*	6	Pivot Hinge Plate, 20M	54579	54579	54579	54579	54579	54579	54579	54579	54579
31*	6	Pivot Hinge Plate, 25M	54510	54510	54510	54510	54510	54510	54510	54510	54510
31*	6	Pivot Hinge Plate, 35M	54510	54510	54510	54510	54510	54510	54510	54510	54510
32	1	Soft Release Control Crank	9664	9664	9664	9664	9664	9664	9664	9664	9664
33	1	Soft Release Bolt	51605	51605	51605	51605	51605	51605	51605	51605	51605
34	1	Soft Release Nylock Nut	51507	51507	51507	51507	51507	51507	51507	51507	51507
35	1	Ramp Control Release Chain	8069	8069	8069	8069	8069	8069	8069	8069	8069
36	1	ANSI Tag (Optional – By Request Only)	-	-	-	-	-	-	15009	15009	15009
37	2	Capacity & Serial Number Decal	15008	15008	15008	15008	15008	15008	15008	15008	15008
38	1	Safety Strut Decal (Not Shown)	54129	54129	54129	54129	54129	54129	54129	54129	54129

NOTE: *If a platform would have to be replaced, the platform shipped would include items #4, 30, and 31.



WEATHERSEAL REPLACEMENT PARTS PT-2 Weatherseal Kit

Item	Qty.	Description	6' L x 6' W	6' L x 6-1/2' W	6' L x 7' W	8' L x 6' W	8' L x 6-1/2' W	8' L x 7' W	10' L x 6' W	10' L x 6-1/2' W	10' L x 7' W
Kit	1	Weatherseal Kit (Includes Items 1-4)	9981	9993	9982	9983	9994	9984	9985	9995	9986
1	2	Formed Side Channel	53073	53073	53073	53074	53074	53074	53075	53075	53075
2	2	Side Weatherseal	55602	55602	55602	55601	55601	55601	55600	55600	55600
3	1	Rear Stabilizer Rod	51424	51473	51425	51424	51473	51425	51424	51473	51425
4	1	Rear Weatherseal	55608	55646	55609	55608	55646	55609	55608	55646	55609

BRUSH WEATHERSEAL KIT

Item	Qty.	Description	6' L x 6' W	6' L x 6-1/2' W	6' L x 7' W	8' L x 6' W	8' L x 6-1/2' W	8' L x 7' W	10' L x 6' W	10' L x 6-1/2' W	10' L x 7' W
Kit	1	Weatherseal Kit (Includes Items 1-4)	4672	4673	4674	4675	4676	4677	4678	4679	4680
1	2	Formed Side Channel	53073	53073	53073	53074	53074	53074	53075	53075	53075
2	2	Side Weatherseal	56521	56521	56521	56518	56518	56518	56519	56519	56519
3	1	Rear Stabilizer Rod	51424	51473	51425	51424	51473	51425	51424	51473	51425
4	1	Rear Weatherseal	55608	55646	55609	55608	55646	55609	55608	55646	55609

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RITE-HITE CORPORATION STANDARD WARRANTY

RITE-HITE Corporation warrants that its products will be free from defects in design, materials and workmanship for a period of 365 days from the date of shipment. All claims for breach of this warranty must be made within 30 days after the defect is or can, with reasonable care, be detected and in no event no more than 30 days after the warranty has expired. In order to be entitled to the benefits of this warranty, the products must have been properly installed, maintained, and operated within their rated capacities and/or specified design parameters, and not otherwise abused. Periodic lubrication and adjustment is the sole responsibility of the owner. This warranty is RITE-HITE'§ exclusive warranty. RITE-HITE CORPORATION EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. Non-standard warranties, if any, must be specified by RITE-HITE Corporation in writing.

In the event of any defects covered by this warranty, RITE-HITE Corporation will remedy such defects by repairing or replacing any defective equipment or parts, bearing all of the costs for parts, labor, and transportation. This shall be the exclusive remedy for all claims whether based on contract negligence or strict liability.

LIMITATION OF LIABILITY

RITE-HITE CORPORATION SHALL NOT IN ANY EVENT BE LIABLE FOR ANY LOSS OF THE USE OF ANY EQUIPMENT OR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, WHETHER FOR BREACH OF WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.



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