

H TECHNICAL PUBLICATION

MAXILIFT™ SYSTEM

NO: L610

SUBJECT: Operator's Guide

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For The Road Ahead

H HENDRICKSON

ENGAGE MAXILIFT

ENGAGE MAXILIFT®

1. Apply the vehicle parking brakes (Figure 1).
2. Check clearance above the trailer. The top of the trailer may hit or scrape objects above, and damage could occur (Figure 2).
3. Release the trailer parking brakes. The trailer will not rise with the trailer parking brakes applied (Figure 3).

IMPORTANT: It is important to maintain full-system pressure during MAXILIFT engagement.

4. Pull out the RAISE/LOWER valve in the control box that is located at the rear of the trailer (Figure 4).
5. With the tractor running, the rear of the trailer will begin to rise. Depending on the weight of the load and available air-system pressure, the trailer may take as long as 5 to 10 minutes to rise completely.

⚠ WARNING: STAY CLEAR OF THE TRAILER WHEN MAXILIFT IS IN OPERATION. MOVEMENT OF THE TRAILER AND/OR SUSPENSION PARTS COULD RESULT IN SERIOUS PERSONAL INJURY.

6. When the trailer is high enough, support stands will automatically swing down and position themselves over the rear axle.

IMPORTANT: The suspension will automatically dump when the support stands are in position.

7. Visually check to ensure that the support stands are in position over the axle and between the u-bolts (Figure 5).

⚠ WARNING: DO NOT LOAD OR UNLOAD THE TRAILER WITHOUT THE SUPPORT STANDS PROPERLY POSITIONED OVER THE AXLE. IF NOT PROPERLY POSITIONED, EXCESSIVE TRAILER WALK AND SQUAT WILL OCCUR, AND MAY RESULT IN SERIOUS PERSONAL INJURY AND PROPERTY DAMAGE.

IMPORTANT: If the support stands do not lower into position, push the RAISE/LOWER valve in and wait until the trailer lowers, then pull the RAISE/LOWER valve again. If the support stands still do not position correctly, push the RAISE/LOWER valve in and lower the trailer to ride height. Seek assistance.

8. Check to ensure that adequate clearance exists between the trailer and any overhead objects before backing into a loading area (Figure 2).

⚠ CAUTION: Check for uneven surfaces before backing with the trailer raised. The suspension arms may hit or scrape uneven surfaces, and damage could occur to the trailer or the suspension (Figure 6).



Figure 1. Apply the parking brake



Figure 2. Check clearance above the trailer



Figure 3. Release the trailer parking brake to raise the trailer

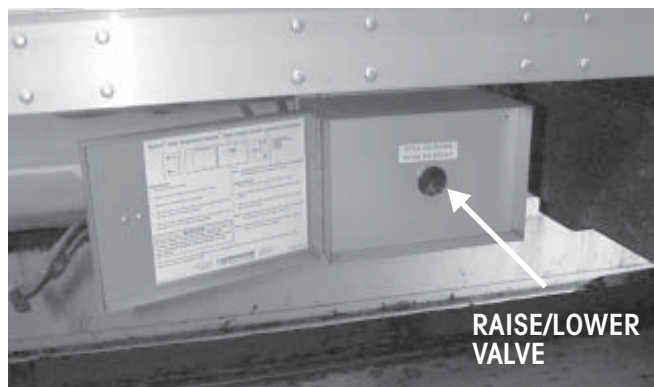


Figure 4. Pull out the RAISE/LOWER valve

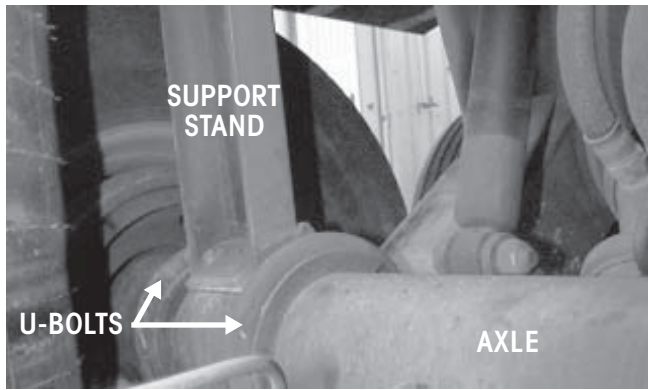


Figure 5. Verify the support stands are over the rear axle



Figure 6. Check clearance underneath the trailer



Figure 7. Release trailer parking brake to raise the trailer

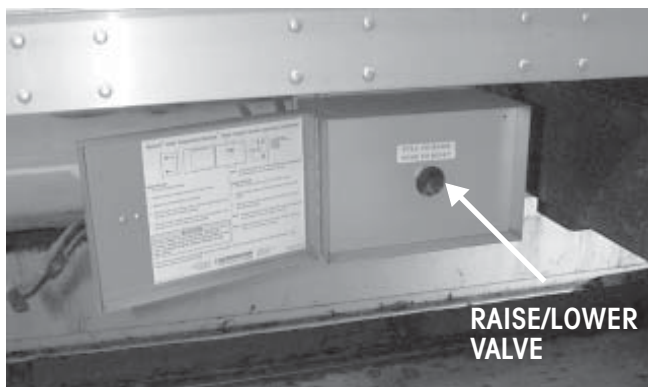


Figure 8. Push in the RAISE/LOWER valve

DISENGAGE MAXILIFT

1. Before pulling the trailer away from the dock, check the clearance above the trailer. The top of the trailer may hit or scrape objects above it, and damage could occur (Figure 2).
2. After checking overhead clearance, pull the trailer away from the dock before lowering the trailer to ride height.
3. Apply the tractor parking brakes. Keep the trailer parking brakes released. The trailer will not rise with the trailer parking brakes applied (Figure 7).

⚠ WARNING: MAINTAIN PROPER SAFETY PROCEDURES TO ENSURE VEHICLE STABILITY. VEHICLE MOVEMENT DURING THIS OPERATION MAY RESULT IN SERIOUS PERSONAL INJURY AND PROPERTY DAMAGE.

IMPORTANT: Apply the tractor parking brake independently of the trailer parking brakes. Engaged trailer parking brakes will cut the supply air needed for the air system to operate properly.

4. With the tractor running, push in the RAISE/LOWER valve (Figure 8).

⚠ WARNING: STAY CLEAR OF THE TRAILER WHEN MAXILIFT IS IN OPERATION. MOVEMENT OF THE TRAILER AND/OR SUSPENSION PARTS COULD RESULT IN SERIOUS PERSONAL INJURY.

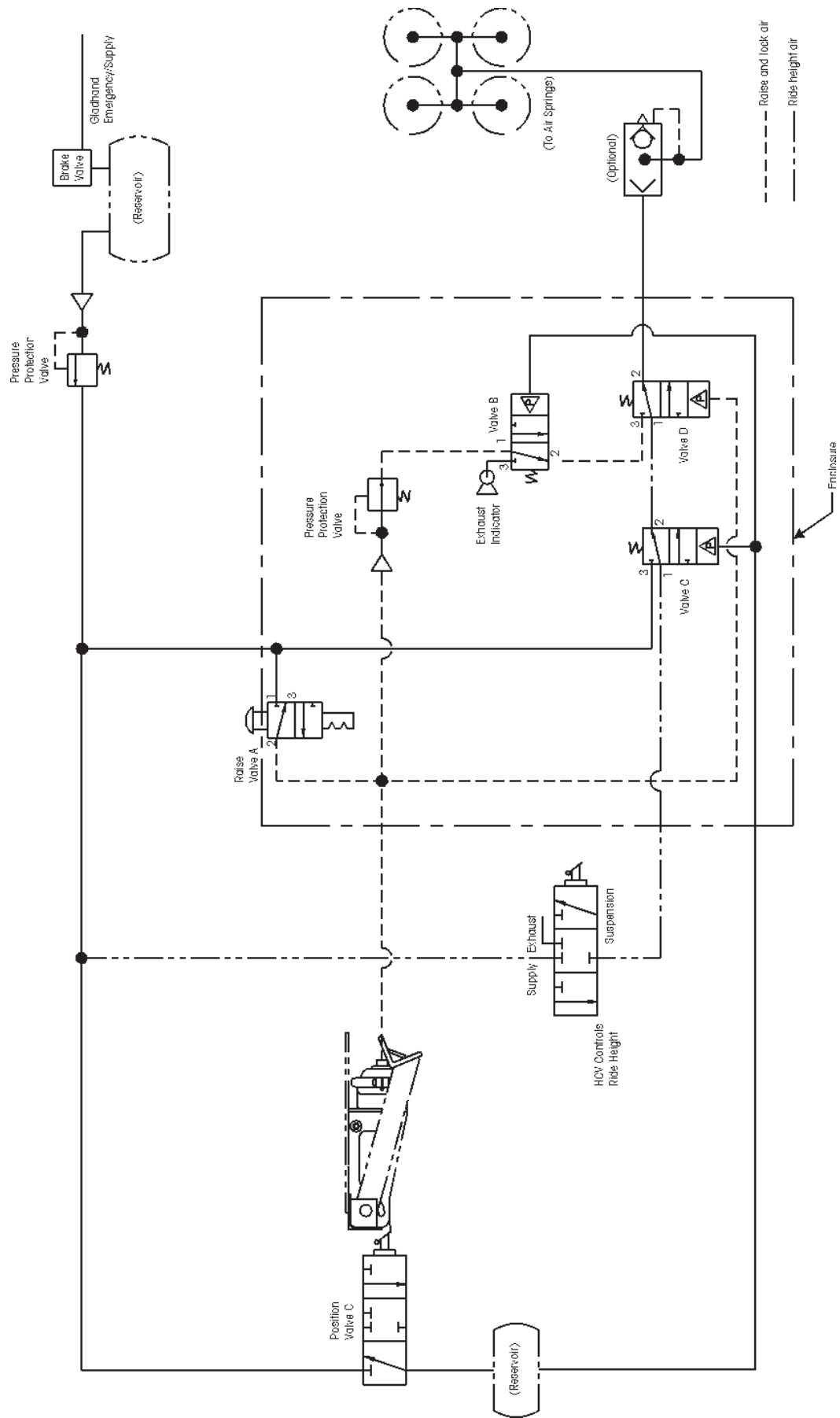
5. The rear of the trailer will begin to rise. Depending on the weight of the load and available air-system pressure, the trailer may take as long as 5 to 10 minutes to rise completely.

IMPORTANT: If the support stands do not rise off the axle, push the RAISE/LOWER valve in and wait a moment, then pull the RAISE/LOWER valve out again. If the support stands still do not raise, seek assistance.

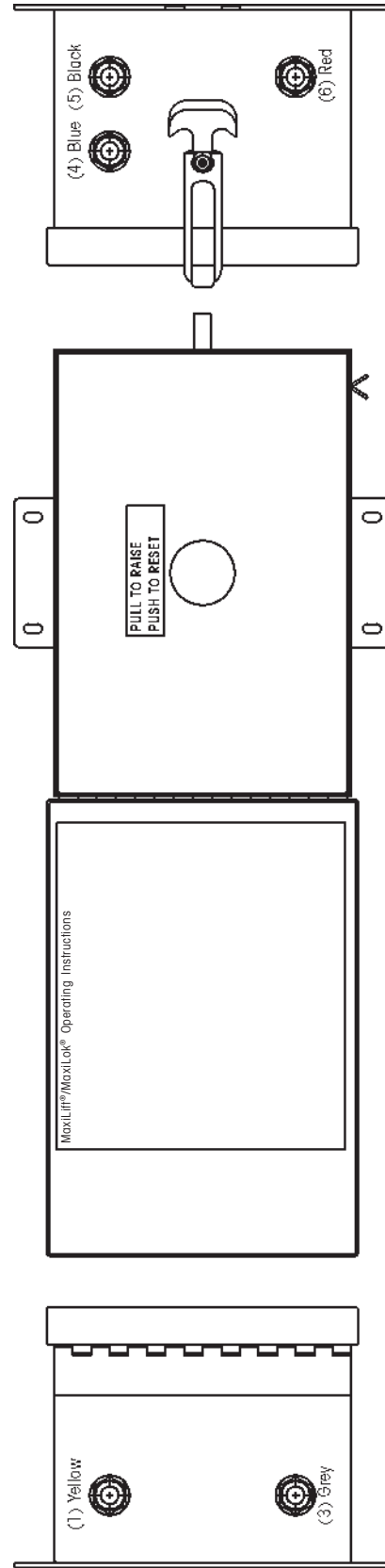
6. The trailer will automatically lower to the designed ride height. Visually check the trailer to ensure the suspension is sitting at its designed ride height before operating. Ensure the support stands are fully retracted.

⚠ CAUTION: NEVER OPERATE a trailer with support stands engaged. Damage may occur to the trailer or the suspension.

AKL-182/AKL-207 PLUMBING



AKL-182/AKL-207 CONTROL BOX



- 1 Air Reservoir Input
- 3 Kickstand Position Valve
- 4 Kickstand
- 5 Height Control Valve Output
- 6 Air Springs

TROUBLESHOOTING MAXILIFT

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
TRAILER WILL NOT LIFT	RAISE/LOWER valve not pulled out	Pull out the RAISE/LOWER valve in the control box
	Trailer parking brakes not released	Release the trailer parking brakes
	Air pressure inadequate	Place air gage in the supply line to check air system pressure
	Overhead obstruction	Move trailer away from obstruction
	Air line flow restriction	Check air system for obstruction or pinched air lines and repair as necessary
	Load is too heavy	Move or transfer load
	Have not waited long enough for the trailer to rise	Wait as long as 15 minutes for the trailer to rise
TRAILER WILL NOT LOWER	Support stands engaged	Follow disengagement procedure found on page 3 in this publication
	RAISE/LOWER valve not pushed in	Push in the RAISE/LOWER valve
	Obstruction under the trailer	Remove the obstruction
	Air exhaust port restricted	Make sure that there are no restrictions in the control box, which would not allow air to exhaust
SUPPORT STANDS WILL NOT LOWER INTO LOCKED POSITION	Load is too heavy	Move or transfer load
	Have not waited long enough for the trailer to rise	Wait as long as 15 minutes for the trailer to rise
	RAISE/LOWER valve not pulled out	Pull out the RAISE/LOWER valve
	Air chamber diaphragm defective on the support stand	Replace the defective air chamber diaphragm
SUPPORT STANDS WILL NOT SWING UP INTO STORED POSITION	Return spring on support stand broken or weak	Replace the return spring
	Load is too heavy	Move or transfer load
	Air line flow restriction	Check air system for obstruction and remove it
SUPPORT STANDS SEIZE	Support stands not lubricated	Add grease through the grease fittings
AIR SPRING LEAKS (HOLE IN BAG)	Air spring rubs on suspension beam	Check ride height and, if necessary, adjust it

PREVENTIVE MAINTENANCE CHECKS

DAILY CHECKS

1. Visually check overall condition of MAXILIFT components.
2. Visually check condition of the control box.
3. Cycle the MAXILIFT unit to verify proper operation.
4. Listen for air leaks from the unit.

PERIODIC PREVENTIVE CHECKS

1. Complete daily checks.
2. Check condition of air lines and fittings on or to the control box.
3. Check condition of both air actuation chambers and air lines.
4. Check for missing or loose mounting bolts on MAXILIFT unit.
5. Operate the system and check for :
 - a. Proper control box valve operation
 - b. Condition of the support stands
 - c. Operation of the support stands
 - d. System operating pressure
6. Check ride height and adjust it, if necessary.
7. Check kickstand lubrication and lubricate it when needed.

MAXILIFT WARRANTY STATEMENT

CONDITIONS:

Hendrickson Trailer Suspension Systems warrants MAXILIFT®, when properly installed and assembled, to be free from defects in material and workmanship in normal use and service, subject to the limitations herein provided. Hendrickson shall repair or replace any component that is returned to Hendrickson within the warranty coverage period, with transportation charges prepaid by the customer and which, upon inspection by Hendrickson, is determined to be defective in material or workmanship. Hendrickson will provide replacement parts and material — freight prepaid — and will reimburse freight charges on returned parts which are covered under this warranty policy. Hendrickson is not responsible for additional costs incurred when replacement parts or materials are not acquired through Hendrickson, unless pre-approved by Hendrickson Warranty Department.

Hendrickson Warranty Department **must authorize** repairs or services before they are performed. Cost and procedures will be determined at that time. Failure to obtain such authorization may result in partial or complete loss of warranty coverage.

COVERAGE PROVISIONS: 36 months or 300,000 miles*

Mechanical Components:	(Up to 12 months or 100,000 miles)* (12 to 36 months or 100,000 to 300,000 miles)*	Parts and labor Parts only
Air System Components:	(Up to 12 months or 100,000 miles)*	Parts and labor
Suspension Components:	See L583 <i>Comprehensive Warranty Statement</i> for coverage	

*Whichever comes first.

THE FOREGOING IS HENDRICKSON'S ONLY WARRANTY, AND ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED.

This warranty does not apply to failures resulting from improper installation, neglect, absence of periodic maintenance, accident, misuse, operation beyond the rated capability of the model or the vehicle to which it is attached, nor to any parts which have been altered or repaired without the written consent of Hendrickson. In no event shall Hendrickson be liable for indirect, special, incidental, or consequential damage of any nature.

Hendrickson assumes no responsibility for wear, damage or deterioration of parts, or changes in adjustments as a result of normal service. Examples include, but are not limited to, the following items: air chamber diaphragm, and return spring.



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