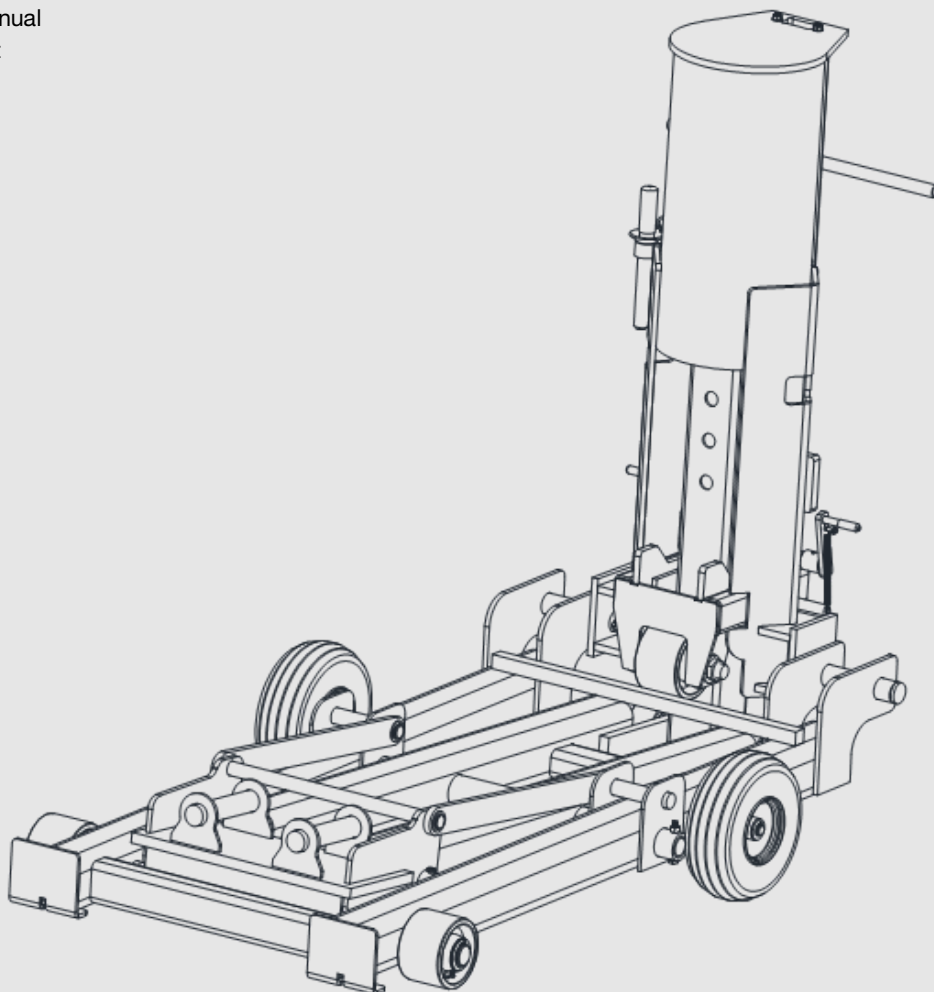


MAHLE CAL-4

EN

Operation Manual
Vehicle Air Lift





**EVERY PERSON WHO OPERATES THIS
EQUIPMENT NEEDS TO KNOW AND
UNDERSTAND ALL OF THE INFORMATION IN
THIS MANUAL – FAILURE TO DO SO COULD
RESULT IN SERIOUS INJURY OR DEATH.**

**READ THIS MANUAL
CAREFULLY AND
RETAIN FOR YOUR
RECORDS**

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1. Safety Regulations

1.1 Warnings

Failure to follow all of these safety instructions can lead to severe injury or death from a sudden loss of the load. Contact the manufacturer using the contact information printed on the back cover of this manual if you have any questions.

- ⚠ Wear eye protection that meets the requirements of ANSI Z87.1 and OSHA.
- ⚠ Maximum capacity is 8,000 lbs. Do not exceed. Overloading can result in equipment failure.
- ⚠ No alterations shall be made to this product.
- ⚠ NEVER load the lift abruptly. Load lift slowly and carefully.
- ⚠ Use the lift only on hard, level surfaces capable of sustaining the load.
- ⚠ NEVER use the lift to raise a vehicle by the frame. The lift is designed to be used only beneath the rear axle of the vehicle.
- ⚠ NEVER raise one end of a vehicle if the opposite end is supported by stands.
- ⚠ NEVER lift an entire vehicle with the lift.
- ⚠ Do not allow any part of your body under the vehicle until the lift is pinned as a stand.
- ⚠ NEVER use the lift in conjunction with any other equipment used to raise a vehicle.
- ⚠ NEVER use blocks, adapters, or cribbing devices not supplied by manufacturer, with the lift.
- ⚠ NEVER allow the lift to be used unless all warning labels and instructional decals are in place and legible.

2. Foreword

2.1 From the manufacturer

Thank you for your purchase. To complement the offering of A/C, fluid and nitrogen service equipment, MAHLE Service Solutions has partnered with Gray Manufacturing to provide the highest quality hydraulic and pneumatic equipment available for the professional service technician. This equipment adheres to high standards promised in the MAHLE guarantee including the assurance of innovation and reliability that comes with the Gray Manufacturing name. Please contact MAHLE Service Solutions' customer service at (800) 468-2321 or tech.mss@us.mahle.com with any comments or questions.

3. Symbols Use

3.1 Signal words

Signal words call attention to a safety message or messages, or a property damage message or messages, and designate a degree or level of hazard seriousness. Signal words used in this manual include:

Keyword	Probability of occurrence	Severity of danger if instructions not observed
DANGER	Immediate impending danger	Death or severe injury.
WARNING	Possible impending danger	Death or severe injury
CAUTION	Possible dangerous situation	Minor injury
NOTICE	Possible damage to property	Possible property damage

4. Responsibilities

4.1 Receiving inspection

Before attempting to operate this equipment, thoroughly read and understand this manual. Completely remove all tape and packaging. Inspect the equipment immediately upon delivery. If shipping damage is evident, inform the delivering carrier immediately and contact the manufacturer using the contact information on the back cover of this manual.

4.2 Owner and/or operator responsibilities

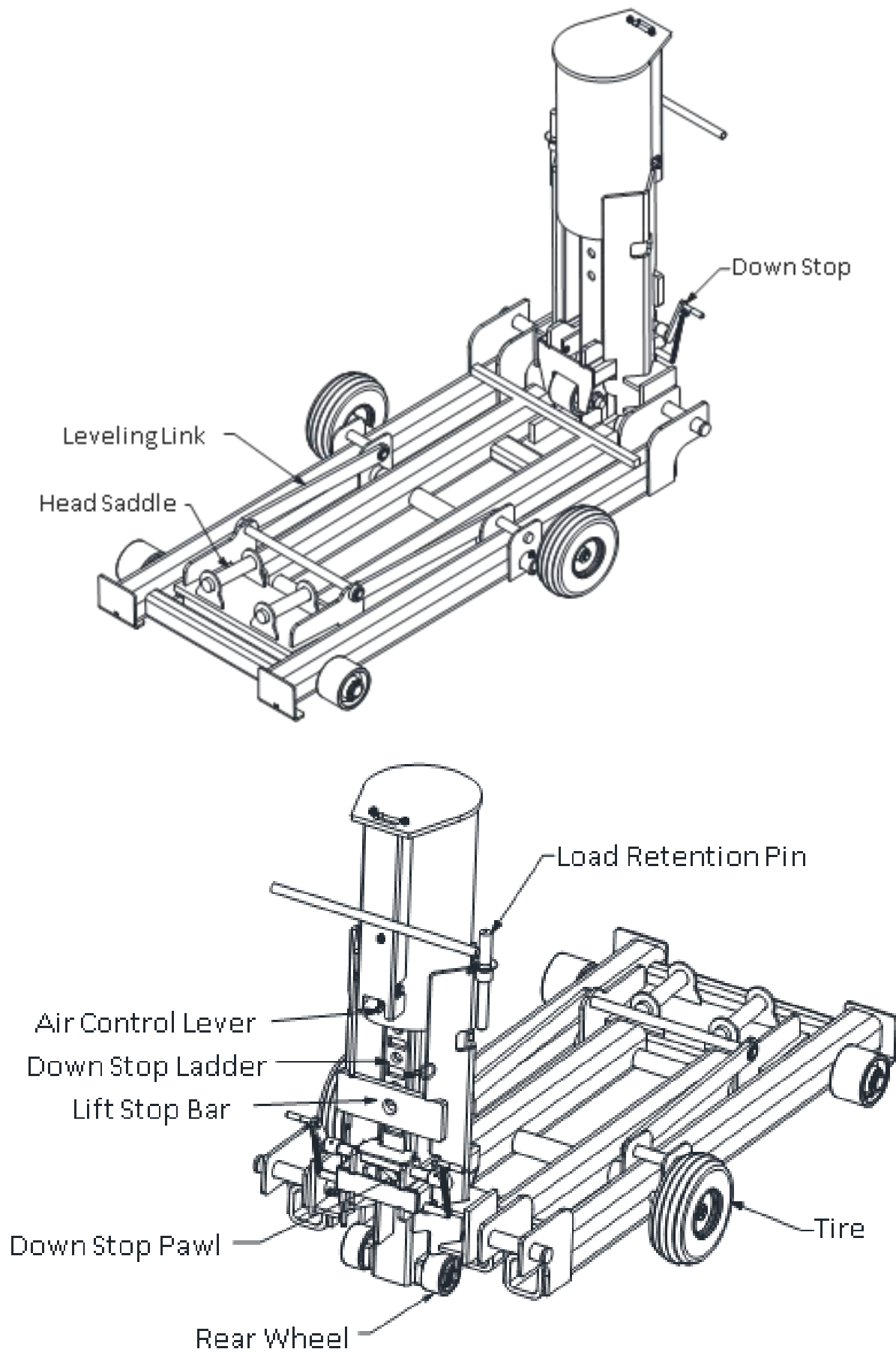
The owner of this equipment must read these instructions and maintain them for future reference and for instructing any other users of the equipment. The owner is responsible for keeping all warning labels and instruction manuals legible and intact. Replacement labels and literature are available from the manufacturer. The owner must never authorize or allow anyone to use this equipment until the operator has read and understood the information in this manual and on the accompanying labeling on the equipment itself.

If this equipment is being used in an occupational setting (or workplace), the employer should ensure that all personnel working with and around the equipment know of the risks associated with its use. Personnel involved in the use and operation of this equipment shall be careful, competent, trained, and qualified in the safe operation of the equipment and its proper use when servicing motor vehicles and their components. Safety information provided with this equipment should be emphasized by the employer and understood by each employee. The employer must make this manual available to all personnel using this equipment and all personnel must read and understand the contents of this manual. If the operator is not fluent in English, the manufacturer's instructions and warnings shall be read to and discussed with the operator in the operator's native language by the employer, making sure that the operator comprehends its contents and observes the proper procedures for use of this equipment.

5. Specifications

Model CAL-4	US units	Metric units
Maximum capacity	8,000 lbs.	3628 kg
Overall Width	39.5 in.	100.3 cm
Overall Length	70.25 in.	178.4 cm
Overall Height	50.75 in.	129.5 cm
Minimum Start Height	7.9 in	20.1 cm
Maximum Lift Height	23.50 in	59.7 cm
Cylinder Stroke	17.00 in	43.2 cm
Weight	700 lbs.	317.5 kg

6. Component Identification



7. Operation

7.1 Prepare the Vehicle

The vehicle should be on a flat level surface capable of sustaining the load.

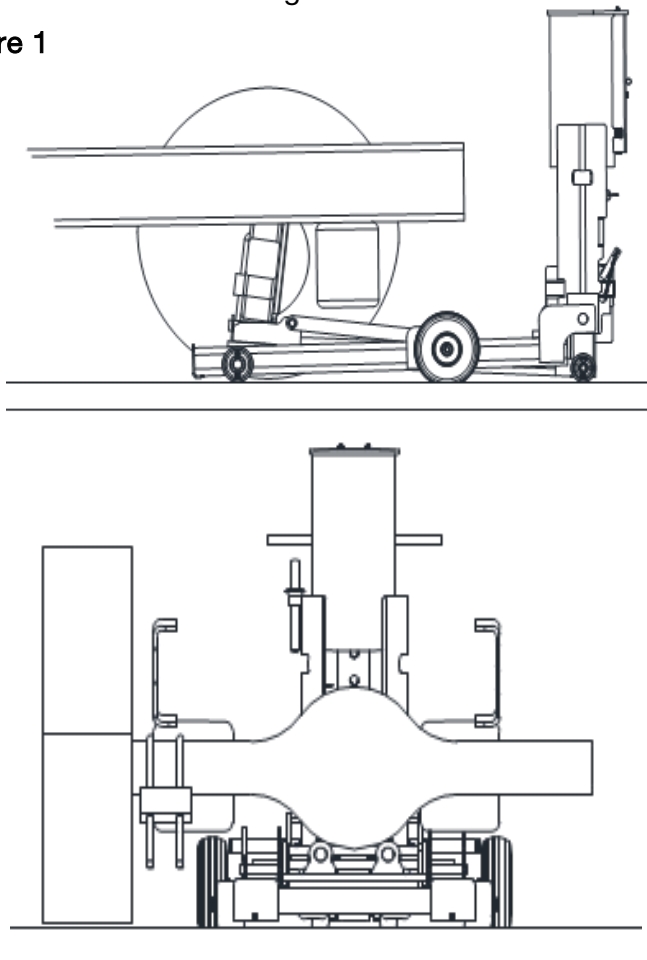
Inspect the rear axles are properly fastened to the suspension of the vehicle.

Check the rear axle housings are in good structural condition prior to lifting the vehicle.

7.2 Raising a Vehicle

1. Release the vehicle's parking brake and place the transmission in neutral.
2. Push lift under the axle housing of the rear tandem axle. Make sure lift is centered under axle, both left and right, and fore and aft, as shown in Figure 1. The raised tabs on the ends of the bars on the Head Saddle should capture the axle housing.

Figure 1



3. Raise the lift slowly by actuating the Air Control Lever to contact the bottom of the axle housing on the rear tandem axle. See Figure 2 for Air Control Lever instructions.

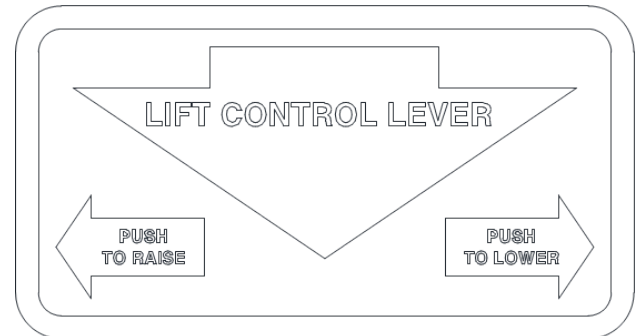


Figure 2

4. Raise the rear axle to the desired work height.

7.3 Pinning the Lift as a Stand

5. Lower the lift to the next available Down Stop Ladder lug and visually confirm the Down Stop Pawl is fully engaged. Exhaust all air from the cylinder by actuating the Air Control Lever.
6. Insert the Load Retention Pin, making sure the Load Retention Pin is inserted through both sides of the Down Stop Ladder tube, as shown in Figure 3.

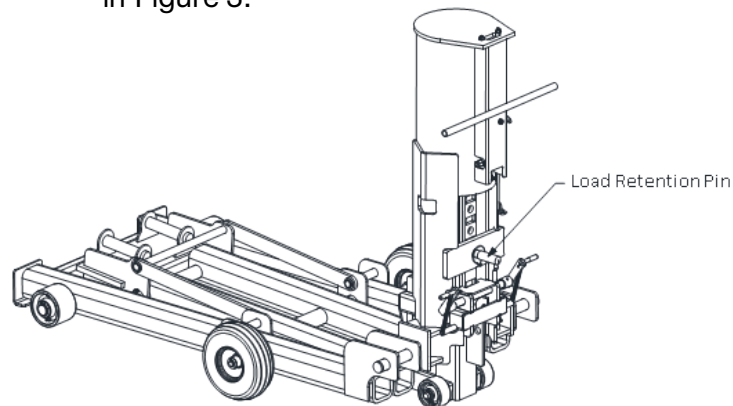


Figure 3

7.4 Lowering a Vehicle to the Ground

1. Remove the Load Retention Pin and insert it into the holder.
2. Raise the lift off the Down Stop Ladder lug by actuating the Air Control Lever.
3. Raise the lift high enough to disengage the Down Stop Pawl from the Down Stop Ladder lug, via the Down Stop Release Handle.
4. Release the Down Stop Pawl by pushing the Down Stop Release Handle toward the lift, as shown in Figure 4.

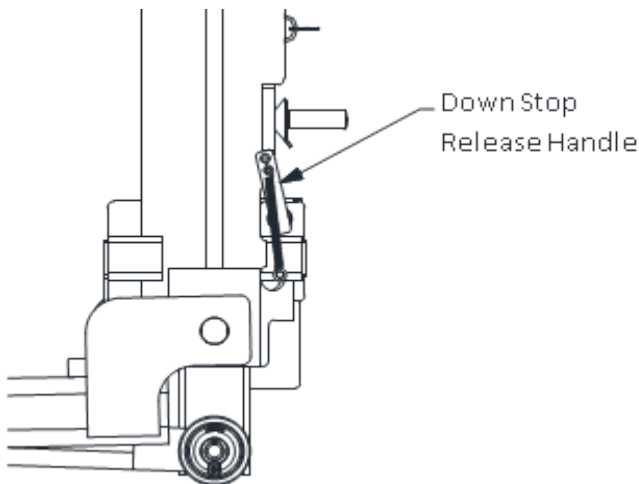


Figure 4

5. Lower the lift by actuating the Air Control Lever and exhausting the air from the cylinder. Be sure to operate the Air Control Lever slowly to bring the vehicle down in a controlled manor. Lowering the lift completely will reset the Down Stop Pawl automatically. The lift is fully lowered when the Lift Base Cross Bar contacts the Lift Arm, as shown in Figure 5.

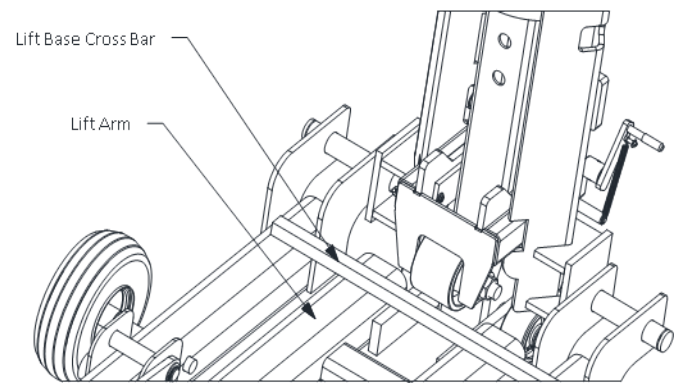


Figure 5

CAUTION

If you decide to raise the vehicle again before it has been fully lowered, you must reset the Down Stop Pawl. To manually reset the Down Stop Pawl, pull the Down Stop Release Handle toward you on the lift (See Figure 4).

6. Pull the lift out from underneath the vehicle.
7. Place the vehicle transmission in gear or park and engage the brakes.

8. Maintenance Instructions

WARNING

All inspection and maintenance procedures must be performed after the lift has been removed from service. Failure to do this may result in personal injury and/or property damage.

- All warning and capacity labels should be legible and complete. Wash external surfaces of lift, labels, and decals with a mild soap solution.
- Lubricate all rotating and sliding portions of the lift monthly.
- Lightly oil or grease any places where the paint has worn off to prevent corrosion.

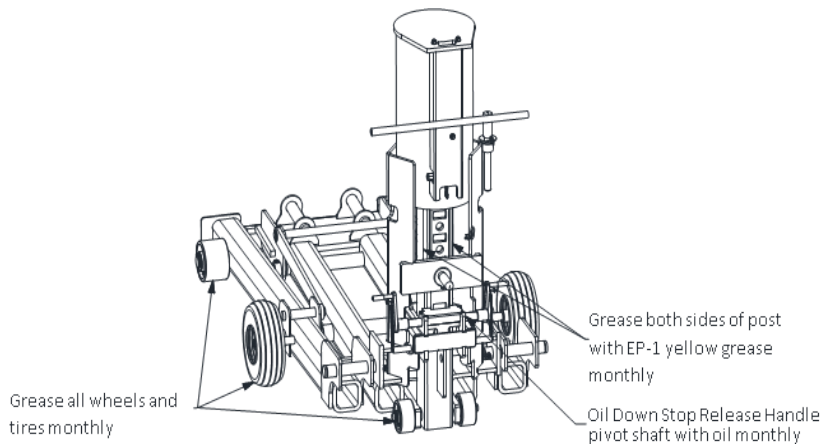


Figure 6

9. Inspection Instructions

WARNING

The lift must be inspected according to the requirements of this section. Failure to properly inspect the lift could lead to severe injury or death. The lift must be removed from service and inspected immediately if it is subjected to an abnormal load or a shock load. If any irregularities or problems are detected during an inspection, the lift must be removed from service immediately and repaired. Contact the manufacturer using the contact information printed on the back cover of this manual.

- Inspect the lift for any cracks, chips, or signs of excessive wear. Visually inspect the welds.
- Inspect the Load Retention Pin for deformities or excessive wear — if deformities or wear patterns are easily noticeable without close inspection, it is excessive. Test the Load Retention Pin by inserting it through the Lift Stop Bar and into each Down Stop Ladder hole. If the Load Retention Pin cannot be inserted fully through the Lift Stop Bar and into each of the holes in the Down Stop Ladder, it is excessively damaged and must be replaced before the lift can be used again.
- Inspect the holes in the Down Stop Ladder. If these holes show excessive elongation or wear on the top or bottom surfaces, they must be repaired before the lift can be placed back into service. Contact the manufacturer using the contact information on the back cover of this manual for repair recommendations.

11. Notes

MAHLE

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