Vehicle Lift Safety The Fleet Manager's Responsibility

Presented by:

Steve Perlstein





An Overview of Your Responsibilities

Annual lift inspection by an experienced lift inspector

Annual lift training to all technicians

Keep all written documentation for your records



What do Fork Lift Training and Vehicle lift Training have in Common?

Both Require Annual Training and Training Records Maintained for OSHA Inspections





Where Can You Obtain Training or Training Materials?

- Automotive Lift Institute Certification Program -The One and Only National Safety Standard for Vehicle Lifts
- www.autolift.org
- Many Vehicle Lift Installers/Repair Centers Provide Lift Training and Annual Lift inspections

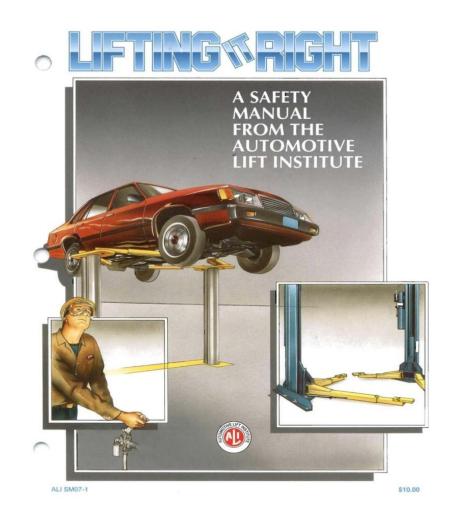


Shown: MP-Series

www.autolift.org

Your Source For Lift Safety and Certification Information

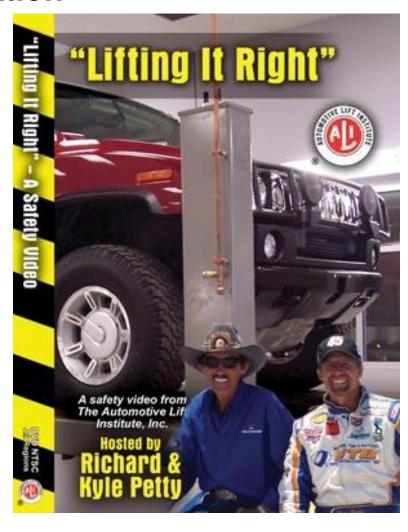
Lifts Must Have an Annual Inspection
by a Qualified Lift Inspector



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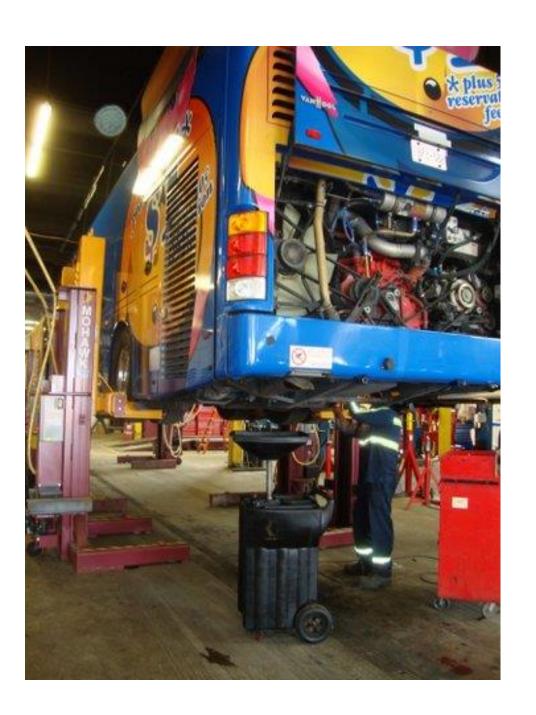
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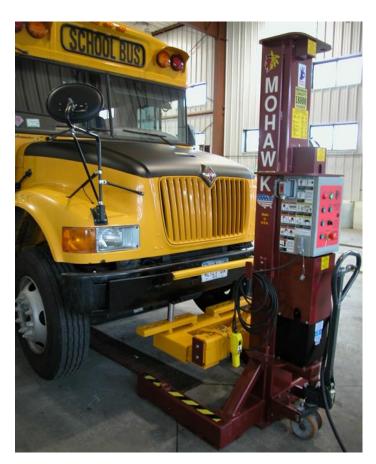
Replacement Lift
Parts Must be
Original Equipment
Manufacturers
Parts to Maintain
ALI/ETL Certification



Shown: MP-Series



Certified Accessories



Lift
Accessories
Must be
Certified to
Maintain
ALI/ETL
Lift
Certification



Jack Stands



JS-4577-24



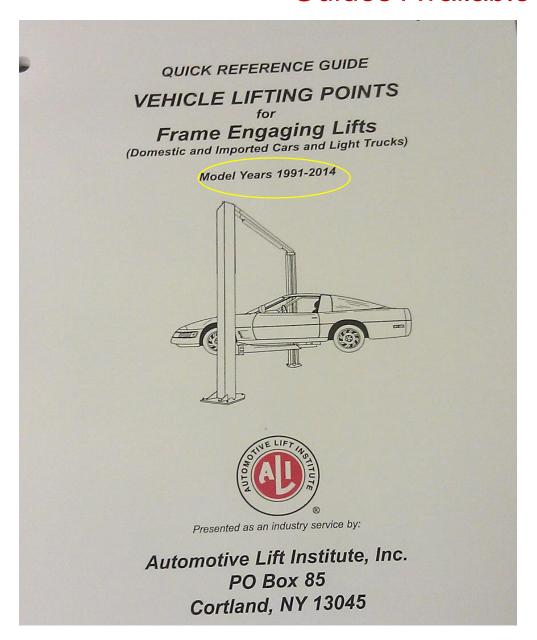
Front to Rear Bumper Adaptor



Chassis Lifting Beam

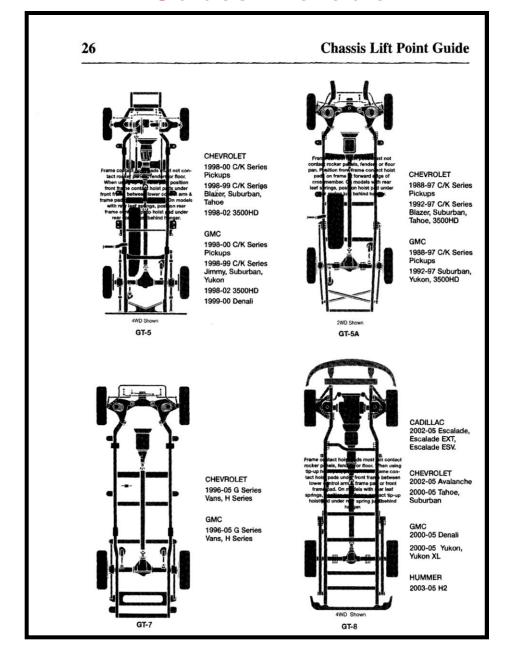


ALI and ALI Members Have Lifting Point Guides Available



Best Practice is to buy a new book annually

ALI and ALI Members Have Lifting Point Guides Available



ALI Safety Tips

AUTOMOTIVE LIFT SAFETY TIPS

Post these safety tips where they will be a constant reminder to your lift operator. For information specific to the lift, always refer to the lift manufacturer's manual.

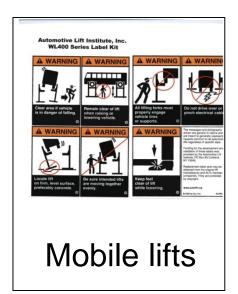
- Inspect your lift daily. Never operate if it malfunctions or if it has broken or damaged parts. Repairs should be made with original equipment parts.
- Operating controls are designed to close when released. Don't block open or override them.
- Never overload your lift. Manufacturer's rated capacity is shown on nameplate affixed to the lift.
- Positioning of vehicle and operation of the lift should be done only by trained and authorized personnel.
- Never raise vehicle with anyone inside it. Customers or by-standers should not be in the lift area during operation.
- Always keep lift area free of obstructions, grease, oil, trash and other debris.
- Before driving vehicle over lift, position arms and supports to provide unobstructed clearance. Do not hit or run over lift arms, adapters, or axle supports. This could damage lift or vehicle.
- 8. Load vehicle on lift carefully. Position lift supports to contact at the vehicle manufacturer's recommended lifting points. Raise lift until supports contact vehicle. Check supports for secure contact with vehicle. Raise lift to desired working height. CAUTION: If you are working under vehicle, lift should be raised high enough for locking device to be engaged.
- Note that with some vehicles, the removal (or installation) of components may cause a critical shift in the car center of gravity, and result in raised vehicle instability. Refer to the vehicle manufacturer's service manual for recommended procedures when vehicle components are removed.
- Before lowering lift, be sure tool trays, stands, etc. are removed from under vehicle. Release locking devices before attempting to lower lift.
- Before removing vehicle from lift, position lift arms and supports to provide an unobstructed exit (See Item #7).

These "Safety Tips", along with general lift safety materials, are presented as an industry service by the Automotive Lift Institute. Visit our web site at www.autolift.org for more information on this material, or write to P.O. Box 85, Cortland, NY 13045.

Look For This Label on all Automotive Service Lifts.



SAFETY WARNING LABELS

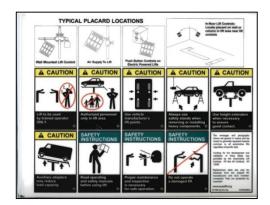




Scissor lift







In-ground lift



Scissor lift



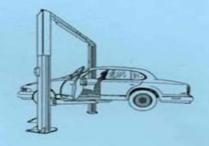
Two post lift

AUTOMOTIVE
LIFT
OPERATION
INSPECTION
&
MAINTENANCE
MANUAL

ANSI/ALI ALOIM:2008

STANDARD for Automotive Lifts -

> SAFETY REQUIREMENTS FOR OPERATION, INSPECTION AND MAINTENANCE



SPONSOR:

AUTOMOTIVE LIFT INSTITUTE P.O. Box 85 • Cortland, NY 13045

Approved as an American National Standard by:



25 West 43's Street - New York, NY 10036

AUTOMOTIVE LIFT OPERATION INSPECTION & MAINTENANCE MANUAL

Section 4. Operation

- 4.1: Operator Qualifications: An automotive lift operator shall have the following qualifications
 - (1) Ability in written or oral communications as demonstrated by one of, or a combination of, the following; high school diploma or certificate of equivalency, aptitude test or job experience;
 - (2) Ability to understand the mathematical, mechanical and electrical principals of automotive lifts as demonstrated by one of, or a combination of, the following; aptitude test, training program, technical-vocational school, school of higher learning or job experience;
 - (3) Demonstrated physical ability to carry out lift operator responsibilities in a safe manner

AUTOMOTIVE LIFT OPERATION INSPECTION & MAINTENANCE MANUAL (cont'd)

4.2 Operator Training

- 4.2.1: Employer shall ensure that operators of automotive lifts are instructed in the safe use and operation of the lift
- 4.2.2: ANSI/ALI ALCTV requires the lift manufacturer to supply operating instructions, general safety information, safety tips and warning labels with each lift manufactured. The employer shall display these materials in a conspicuous location in the lift area.
- 4.3 Operator Training Documentation: The owner or employer shall **appropriately document operator training** by completing the operator training log found in the appendix to this standard

AUTOMOTIVE LIFT OPERATION INSPECTION & MAINTENANCE MANUAL (cont'd)

5. Periodic Qualified Inspection

- 5.1 Qualified Inspection Procedure: <u>The employer shall establish a periodic inspection procedure</u> in accordance with the recommendations of the lift manufacturer in order to ensure reliability and allow the continued safe operation of the lift.
- 5.4 Qualified Inspection Documentation: A record of each periodic inspection shall be prepared and maintained noting the observations and findings of all points of inspection recommended by the manufacturer as well as subsequent repairs or replacements accomplished.
- 5.5 Inspections by the employer shall follow the recommendations of the lift manufacturer as to frequency. Without regard to the frequency of inspection specified by the lift manufacturer, whether it be weekly, monthly, semi-annually, annually or on some other basis, the owner or employer shall ensure that the points presented in 5.6 are inspected by a qualified lift inspector as a minimum annual requirement.

Were an incident to occur, OSHA investigators would ask 3 broad questions;

- What did you know?
- When did you know it?
- What did you do about it?

AUTOMOTIVE LIFT INSTALLATION & SERVICE MANUAL

American National Standard

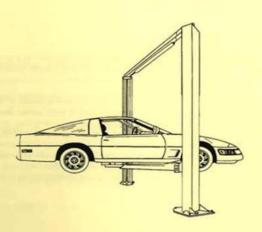
ANSI/ALI ALIS-2001

ANSI/ALI ALIS-2001 \$25.00



STANDARD for Automotive Lifts -

SAFETY REQUIREMENTS FOR INSTALLATION AND SERVICE



AUTOMOTIVE LIFT INSTITUTE, INC. P.O. Box 33116 Indialantic, FL 32903-3116





Periodic Lift Inspection Checklist (pg. 1 of 6)

Location Name

ALOIM	Inspection Points - All Lifts (Appendix C, ALOIM:2008) Appendix C applies to all lifts including wheels free devices	Pass	Fail	N/A
5.6.2.1	Record location of manufacturer instructions or generic instructions.			
	Including Manufacturer Installation Instructions			
	Including Manufacturer Operation Manuals			
	Including Manufacturer Inspection Documents			
	Including Manufacturer Maintenance Records			
	Or equivalent (ANSI/ALI-ALOIM)			
5.6.2.2	Record location of generic safety instructions.			
	Including appropriate lift safety instructions			
	Including ALI/SM, "Lifting It Right"			
	Including ALI/ST, "Safety Tips"			
	Or equivalent (Identify)			
5.6.2.3	Record location of lifting point information.			
	Including ALI/LP-Guide "Quick Reference Guide, Vehicle Lifting Points for Frame Engaging Lifts" (Identify year of ALI/LP-Guide).			
	Or equivalent (Identify)			
5.6.2.4	Check accessibility & readability of safety warning labels.			

OSHA MAINTENANCE LOG*

Post in a conspicuous location

Courtesy of: MOHAWK LIFTS

SAFETY INSTRUCTIONS

- Do not operate this equipment unless you have been properly trained and have been authorized by your supervisor.
- Notify your supervisor immediately of any umafe conditions or defective equipment.
- Be sure mechanical safeties are properly engaging.
- Be sure vehicle is properly positioned before lifting.
- Be sure area above and below heist is clear before raising or lowering hoist.



Safety Inspection Performed by:







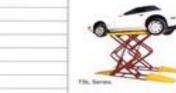


Personnel Trained for Proper Use:

Name	Date	Trained by:













































Q: Can You Exceed a Two Post Lift Capacity With a Vehicle Lighter than the Rated Capacity?

A: YES (BUT DON'T)!

10,000 lb. Capacity/ 4 Swing Arms = 2500 lbs.

Example: 9,000 lb. vehicle with 6,000 rear axle and 3,000 lb. front axle

If your rear axle weighs 6,000, then each swing arm needs a minimum arm capacity of 3,000 lbs.

3,000 x 4 swing arms= 12,000 lb. lift needed

DON'T OVERLOAD THE SWING ARMS!



Q: Has the tech lowered the lift onto the mechanical locks as instructed? "Yes/No"



Q: If yes, how do you verify that the lift has been lowered on to the locks?

A: Weight gauge reads "0"



Q: Did your new tech properly position the lifting arms?



• Q: Is he/she an experienced technician?

Speedlane--Eliminates placement of swing arms

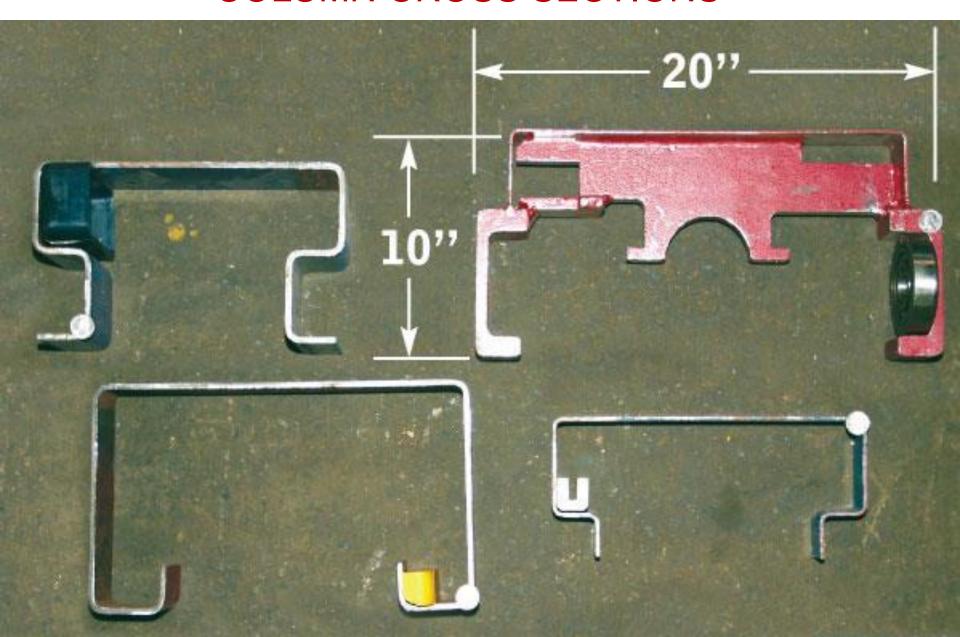




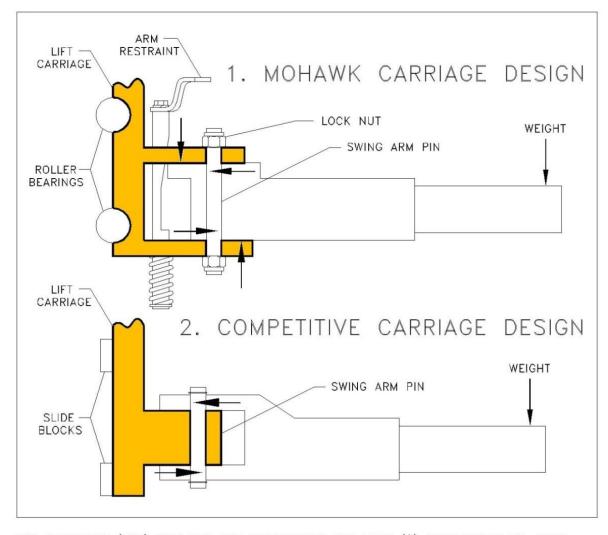
What to Look for When Buying A Safe Lift

- Column Construction
- Arm Connection to the Carriage
- Cables, Chains or Direct Lifting
- Mechanical Locks
- Maximum Lifting Capacity
- ALI Certification

10,000 LB. CAPACITY 2 POST COLUMN CROSS SECTIONS



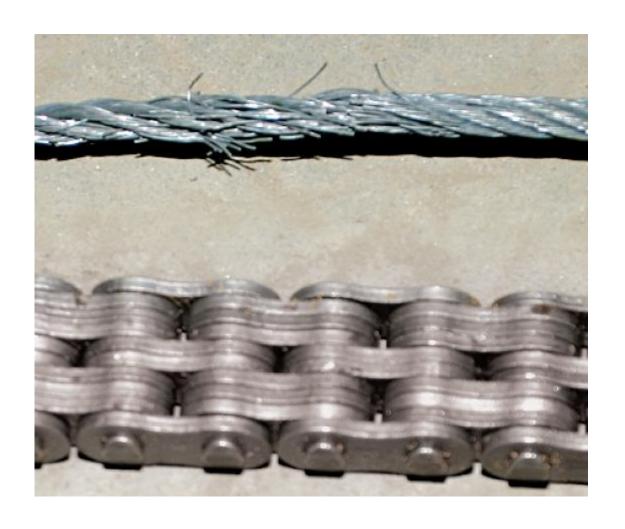
Q: How does the arm connect to the carriage?



Mohawk Carriages Grip The Arm, Distributing The Load Throughout Vs. Some Lifts With 100 Percent Shearing Force On The Arm Pin

TOP CARRIAGES (TOP) GRIP THE ARM DISTRIBUTING THE LOAD (\dagger) THROUGHOUT VS. SOME LIFTS WITH 100 PERCENT SHEARING FORCE (\dagger) ON THE ARM PIN.

Q: Is the lift using cables, chains, or direct lifting?



Q: At what height do mechanical locks begin to engage?



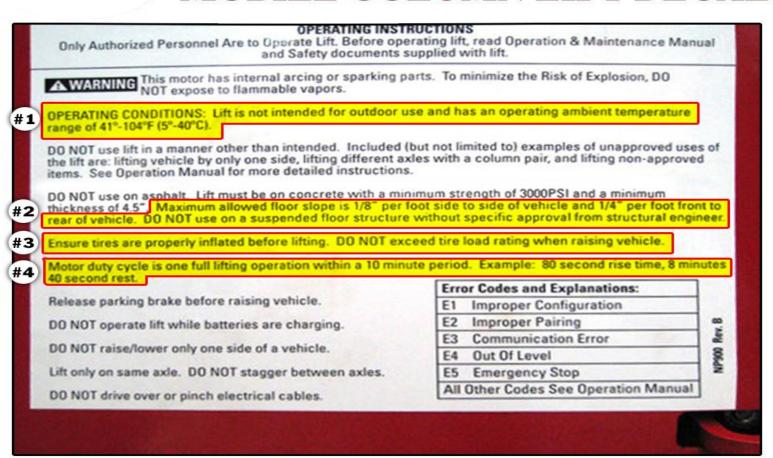
The Load Should be on the Shop Floor (not the lift's wheels or axle)



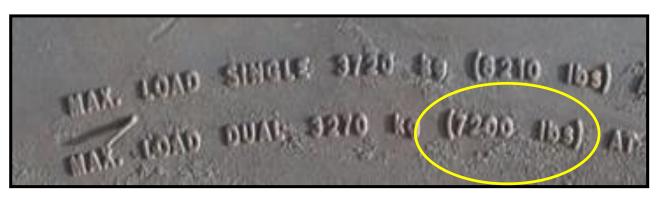


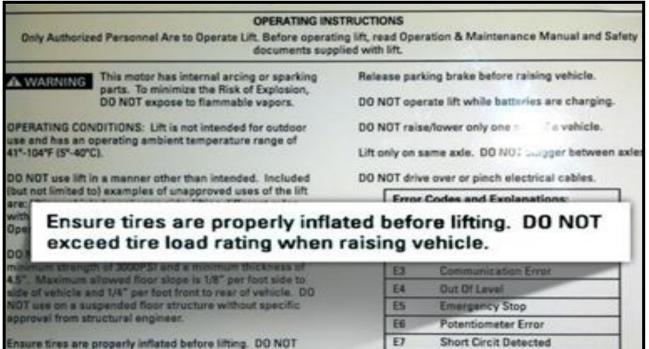
Never Bypass a Manufacturer's Specific Safety Warnings & Instructions

MOBILE COLUMN LIFT DECAL



Never Overload the Rear Tire's Maximum Load Rating

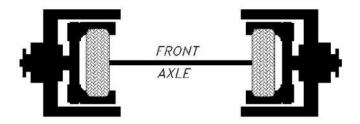


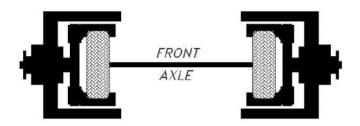


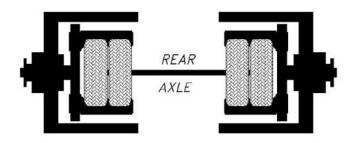
Never Overload the Rear Tire's Maximum Load Rating

Extended Forks for Dual Rear Tires

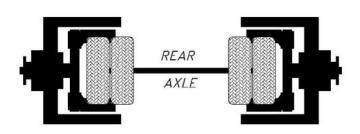
Typical Mobile Column











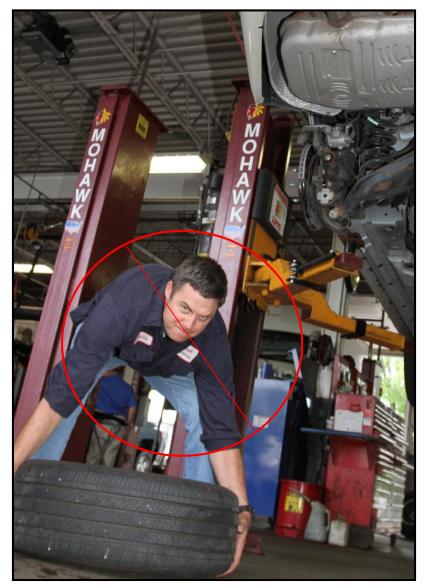
*Dangerously over-pressurizes rear tire's max load rating

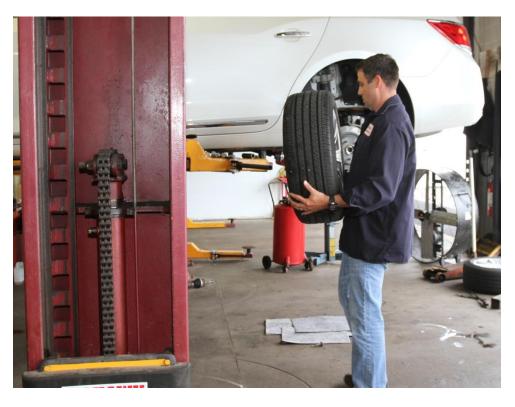
Never Bypass a Manufacturer's Specific Safety Warnings & Instructions





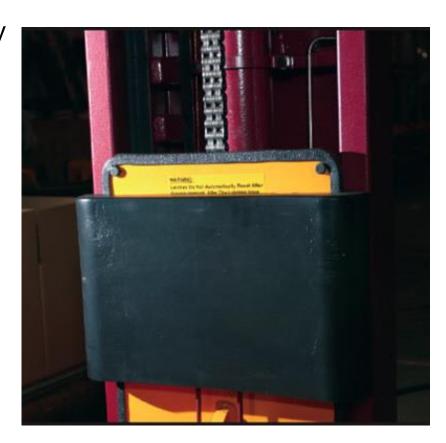
The Backsaver stops techs from bending down to lift heavy tires





Mohawk Safety Accessory: Foam Door Guard

- Protects vehicle from dents
 & scratches if the door is accidentally opened into the columns
- 2" thick soft foam won't damage door



Mohawk Safety Accessory: Head Bumper

- Protects the tech.
 from injuring their
 head on lift swing arm
- Increases shop & worker safety



Summary

 Every lift requires annual inspection by an experienced lift inspector

Every technician requires annual lift training

Keep all written documentation for your records

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