

General Two-Post Car Lift Safety Warnings

PLEASE READ THE ALL CONTENTS OF THIS MANUAL PRIOR TO INSTALLATION AND OPERATION. BY PROCEEDING, YOU AGREE THAT YOU FULLY UNDERSTAND AND COMPREHEND THE ENTIRETY OF THIS DOCUMENT. YOUR SAFETY IS NOT GUARANTEED IF YOU FAIL TO OPERATE THIS EQUIPMENT AS DIRECTED.

Make sure that ALL USERS read this manual BEFORE attempting operation.

BE SAFE

Your new lift was designed and built with safety in mind. However, your overall security can be increased by proper training and thoughtful operation on the part of the operator. DO NOT operate or repair this equipment without reading these important safety instructions.

IMPORTANT NOTICE

Do not attempt to install this lift if you have never been trained on basic automotive lift installation procedures. Never attempt to lift components without proper lifting tools such as forklift or cranes. Stay clear of any moving parts that can fall and cause injury. These instructions must be followed to ensure proper installation and operation of your lift. Failure to comply with these instructions will void the product warranty. Manufacturer will assume no liability for loss or damage of any kind, expressed or implied resulting from improper installation or use of this product.

PLEASE READ ENTIRE MANUAL PRIOR TO INSTALLATION.

OWNER'S RESPONSIBILITY

To maintain the lift and user safety, the responsibility of the owner is to read and follow these instructions:

- Follow all installation and operation instructions.
- Make sure installation conforms to all applicable local, state and federal codes, rules and Regulations; such as state and federal OSHA regulations and electrical codes.
- Carefully check the lift for correct initial function.
- Read and follow the safety instructions. Keep them readily available for machine operators.
- Make certain all operators are properly trained, know how to safely and correctly operate the car lift and that they are properly supervised.
- Initiate car lift operation only with all parts in place.
- Thoroughly inspect the car lift on a regular basis and perform all maintenance as required.
- Service and maintain the car lift only with authorized or approved replacement parts.
- Keep all instructions permanently with the car lift and all decals on the unit clean and visible.

BEFORE YOU BEGIN

Receiving:

The shipment should be thoroughly inspected as soon as it is received. The signed bill of lading is an acknowledgement by the carrier of the receipt that the product arrived in good condition via shipment. If any of the goods called for on this bill of lading are shorted or damaged, do not accept them until the carrier makes a notation on the freight bill of the shorted or damaged goods. Do this for your own protection.

NOTIFY THE CARRIER AT ONCE if any hidden loss or damage is discovered after receipt. Request the carrier to make an inspection. If the carrier will not do so, prepare a signed statement to the effect that you have notified the carrier (on a specific date) and that the carrier has failed to comply with your request.

IT IS DIFFICULT TO COLLECT FOR LOSS OR DAMAGE AFTER YOU HAVE GIVEN THE CARRIER A CLEAR RECEIPT. File your claim with the carrier promptly. Support your claim with copies of the bill of

loading, freight bill, invoice and photographs, if available. Our willingness to assist in helping you process your claim does not make BendPak responsible for collection of claims or replacement of lost or damaged materials.

PLEASE READ AND FULLY UNDERSTAND THE FOLLOWING STATEMENT. BY PROCEEDING WITH ANY LIFT INSTALLATION OR OPERATION, YOU ACKNOWLEDGE THAT THESE STATEMENTS ARE TRUE.

- I have visually inspected the site where the car lift is to be installed and verified that the concrete is in good condition, free of cracks or other defects. I understand that installing a car lift on cracked or defective concrete could cause lift failure, resulting in personal injury and / or damaged property.
- I understand that a level floor is required for proper installation and level lifting.
- I understand that I am responsible if my floor is of questionable slope and that I will be responsible for all charges related to pouring a new level concrete slab if required.
- I understand that the car lifts are supplied with concrete fasteners, meeting the criteria of the American National Standard "Automotive Lifts - Safety Requirements for Construction, Testing and Validation" ANSI / ALI ALCTV - 1998, and that I will be responsible for all charges related to any special regional structural and / or seismic anchoring requirements specified by any other agencies and / or codes such as the Uniform Building Code (UBC) and / or International Building Code (IBC).
- I will assume full responsibility for the concrete floor and condition thereof, now or later, where the car lift model(s) are to be installed.
- I understand that BendPak car lifts are designed to be installed indoors only.
- I have read the entire manual prior to installation.

INSTALLER / OPERATOR PROTECTIVE EQUIPMENT

Personal protective equipment helps makes installation and operation safer, however, it does not take the place of safe operating practices. Always wear durable work clothing during any installation and / or service activity. Shop aprons or shop coats may also be worn. However, loose fitting clothing should be avoided. Tight fitting leather gloves are recommended to protect technician hands when handling parts. Sturdy leather work shoes with steel toes and oil resistant soles should be used by all service personnel to help prevent injury during typical installation and operation activities. Eye protection is also essential during installation and operation activities. Safety glasses with side shields, goggles, or face shields are acceptable. Back belts provide support during lifting activities and are also helpful in providing worker protection. Consideration should also be given to the use of hearing protection if service activity is performed in an enclosed area or if noise levels are high.

IMPORTANT SAFETY INSTRUCTIONS !

Read these safety instructions entirely!

IMPORTANT NOTICE !

Do not attempt to install this car lift if you have never been trained on basic automotive lift installation procedures. Never attempt to lift components without proper lifting tools such as a forklift or cranes. Stay clear of any moving parts that can fall.

INTRODUCTION

1. **READ AND UNDERSTAND** all safety warning procedures before operating your car lift.
2. **CAREFULLY REMOVE** the crating and packing materials.
3. **ALWAYS BE CAREFUL** when cutting steel banding material as items may become loose and fall.
4. **CHECK THE VOLTAGE**, phase and proper amperage requirements for the motor shown on the motor plate. Wiring must be performed by a certified electrician only.

5. **KEEP HANDS AND FEET CLEAR.** Remove hands and feet from any moving parts. Keep feet clear of car lift when lowering. Avoid pinch points.
6. **KEEP WORK AREA CLEAN.** Cluttered work areas invite injuries.
7. **DO NOT** use your car lift in damp or wet locations. Consider your work environment. Keep area well lit.
8. **ONLY TRAINED OPERATORS** should operate this lift. All non-trained personnel should be kept away from work area. Never let non-trained personnel come in contact with or operate car lift.
9. **USE LIFT CORRECTLY.** Never use lifting adapters other than what is approved by the manufacturer.
10. **DO NOT** override self-closing car lift controls.
11. **REMAIN CLEAR** of lift when raising or lowering vehicle.
12. **CLEAR AREA** if vehicle is in danger of falling.
13. **ALWAYS ENSURE** that the safeties are engaged before any attempt is made to work on or near vehicle.
14. **DRESS PROPERLY.** Non-skid, steel-toed footwear is recommended when operating lift.
15. **GUARD AGAINST ELECTRIC SHOCK.** This car lift must be grounded while in use to protect the operator from electric shock. Never connect the green power cord wire to a live terminal.
This is for ground only.
13. **DISCONNECT POWER** at the receptacle before performing any electrical repairs. The power unit used on this car lift contains high voltage. Secure plug so that it cannot be accidentally plugged in during service.
14. **WARNING!** This equipment has internal arcing or sparking parts which should not be exposed to flammable vapors. This machine should not be located in a recessed area or below floor level.
15. **MAINTAIN WITH CARE.** Keep car lift clean for better and safer performance. Follow manual for proper lubrication and maintenance instructions. Keep control handles and / or buttons dry, clean and free from grease and oil.
16. **STAY ALERT.** Watch what you are doing. Use common sense. Be aware.
17. **CHECK FOR DAMAGED PARTS.** Check for misalignment of moving parts, breakage of parts or any condition that may affect its operation. Do not use car lift if any component is broken or damaged.
18. **NEVER** remove safety related components from the lift. Do not use car lift if safety related components are damaged or missing.

IMPORTANT NOTICE!

These instructions must be followed to ensure proper installation and operation of your lift. Failure to comply with these instructions will void the product warranty. Manufacturer will assume no liability for loss or damage of any kind, expressed or implied resulting from improper installation or use of this product.

PLEASE READ ALL INSTRUCTIONS PRIOR TO INSTALLATION!

1. **LIFT LOCATION.** Always use architect plans when available. Check layout dimension against floor plan requirements, making sure that adequate space is available.
2. **OVERHEAD OBSTRUCTIONS.** The area where the car lift will be located should be free of any kind of overhead obstruction. Examples include heaters, building supports, electrical lines, etc.
3. **DEFECTIVE FLOOR.** Visually inspect the site where the lift is to be installed and check for cracked or defective concrete.
4. **OPERATING TEMPERATURE.** Only operate car lift between temperatures of 41° - 104° F.
5. Lift is designed for **INDOOR INSTALLATION ONLY.**

FLOOR REQUIREMENTS

This car lift must be installed on a solid level concrete floor with no more than 3-degrees of slope. Failure to do so could cause personal injury or death. A level floor is suggested for proper use, installation and level lifting. If a floor is of questionable slope, consider a survey of the site and / or the possibility of pouring a new level concrete slab. All car lift models **MUST** only be installed on 3,000 PSI concrete. New concrete must be adequately cured for at least a minimum of 28 days.

- DO NOT** install or use this car lift on any asphalt surface or any surface other than concrete.
- DO NOT** install or use this car lift on expansion seams or on cracked or defective concrete.
- DO NOT** install or use this car lift on a second / elevated floor without first consulting building architect.
- DO NOT** install or use this car lift outdoors.

When removing the lift from shipping angles, pay close attention as the posts can slide. Prior to removing the bolts, make sure the posts are held securely by a fork lift or some other heavy lifting device.

DO NOT run power unit without oil. Damage to pump can occur.

The Power Unit must be kept dry.

Damage to power unit caused by water or other liquids such as detergents, acid etc., is not covered under warranty.

Operate lift only between temperatures of 41° F - 104° F.

Improper electrical hook-up can damage motor and will not be covered under warranty.

Motor can not run on 50Hz without a physical change in motor.

Use a separate breaker for each Power Unit.

Protect each circuit with time delay fuse or circuit breaker.

For 208 - 230 volt, single phase, use a 25 amp fuse.

For 208 - 230 volt, three phase, use a 20 amp fuse.

For 380 - 440 volt, three phase, use a 15 amp fuse.

Be sure to route the hydraulic hoses through the retaining clips welded inside each column.

If the anchor bolts were loosened to aid on the installation of the top trough, make sure to tighten the anchor bolts.

ENSURE THAT BOTH THE POWERSIDE & OFFSIDE SAFETIES ENGAGE PROPERLY PRIOR TO LIFT OPERATION.

You **MUST** re-install top carriage-stop bolt (shown below) after top trough is installed and secured. Tighten carriage-stop bolt to 2 - 3 ft-lbs. of torque upon final installation inspection. These instructions must be followed to ensure proper installation and operation of your lift. Failure to comply with these instructions can result in serious bodily injury or death and will void the product warranty. Manufacturer will assume no liability for loss or damage of any kind, expressed or implied, resulting from improper installation or use of this product.

DO NOT PERFORM ANY MAINTENANCE OR INSTALLATION OF ANY COMPONENTS WITH OUT FIRST ENSURING THAT ELECTRICAL POWER HAS BEEN DISCONNECTED AT THE SOURCE OR PANEL AND CANNOT BE RE-ENERGIZED UNTIL ALL MAINTENANCE AND / OR INSTALLATION PROCEDURES ARE COMPLETED.

WARNING!

When routing the Hydraulic Hose through the Columns, make sure to route through the retaining rings welded inside each column. Make sure that the hose is clear of any moving parts. It may be necessary to tie hose clear by using nylon tie straps or wire.

WARNING!

WHEN THE CABLE ADJUSTING NUTS BOTTOM OUT ON THE THREADED END OF THE CABLE CONNECTOR AND THERE IS STILL SLACK IN THE CABLES, THE CABLES HAVE STRETCHED BEYOND THE SAFE, USEFUL LENGTH AND NEED TO BE REPLACED WITH FACTORY APPROVED CABLE ASSEMBLIES. DO NOT PLACE WASHERS OR OTHER DEVICES TO "SHORTEN" THE EFFECTIVE CABLE LENGTH AS DAMAGE TO THE LIFT OR INJURY TO PERSONS MAY OCCUR.

DANGER !

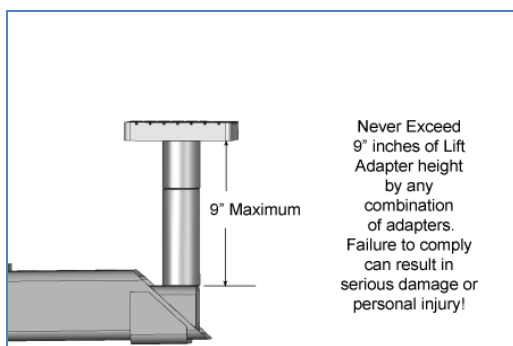
Make sure that the safety locks on each Column are fully engaged before attempting to route equalizer cables and / or hoses. Carriages must be equal height from the floor before proceeding.

CAUTION!

Micro-switch Cable must be run through Clips in Column and Top Trough. Failure to do so can cause damage to the lift or vehicles.

WARNING!

Power Unit Hydraulic Hose Assembly must be routed through the Clips in Powerside Safety Cover. Failure to do so can result in personal injury or damage to the lift.



DANGER!

VISUALLY CONFIRM THAT ALL PRIMARY SAFETY LOCKS ARE ENGAGED BEFORE ENTERING WORK AREA.

Suspension components used on this lift are intended to raise and lower lift only and are not meant to be load holding devices. Remain clear of elevated lift unless visual confirmation is made that all primary safety locks are fully engaged and the lift is lowered onto the safety locks. Please refer to installation / operation manual for proper safety lock procedures and / or further instruction.

NEVER EXCEED THE RATED CAPACITY of lift.

- DO NOT USE LIFT** if any component is found to be defective or worn.
- NEVER OPERATE LIFT** with any person or equipment below.
- ALWAYS STAND CLEAR** of lift when lowering or raising.
- ALWAYS ENSURE SAFETY LOCKS ARE ENGAGED** before entering work area.
- NEVER LEAVE LIFT IN ELEVATED CONDITION** unless all Safety Locks are engaged.

1. If cement anchor bolts are loose or any component of the lift is found to be defective, **DO NOT USE THE LIFT!!**
2. Never operate the lift with any person or equipment below the vehicle.
3. Never exceed the rated lift capacity.
4. Always ensure the safeties are engaged before any attempt is made to work on or near the vehicle.
5. Never leave lift in elevated position unless the safeties are engaged.
6. Do not permit electric motor to get wet! Motor damage caused by dampness is not covered under warranty.

NEVER LIFT ANY VEHICLE IN ANY MANNER WITH LESS THAN ALL FOUR (4) ARMS. RATED CAPACITY OF EACH LIFT ARM IS NO GREATER THAN ONE FOURTH (1/4) OF THE OVERALL LIFT CAPACITY.

Safe Lift Operation

Automotive and truck lifts are critical to the operation and profitability of your business. The safe use of this and other lifts in your shop is critical in preventing employee injuries and damage to customer vehicles. By operating lifts safely, you can ensure that your shop is profitable, productive and safe. Safe operation of automotive lifts requires that only trained employees should be allowed to use the lift.

TRAINING SHOULD INCLUDE, BUT IS NOT LIMITED TO:

- Proper positioning of the vehicle on the runway. (See manufacturers minimize wheel base loading requirements.)
- Use of the operating controls.
- Understanding the lift capacity.
- Proper use of jack stands or other load supporting devices.
- Proper use, understanding and visual identification of safety lock devices and their operation.
- Reviewing the safety rules.
- Proper housekeeping procedures (lift area should be free of grease, oil, tools, equipment, trash and other debris).
- A daily inspection of the lift should be completed prior to its use. Safety devices, operating controls, lift arms and other critical parts should be inspected prior to using the lift.
- All maintenance and repairs of the lift should be completed by following the manufacturer's requirements. Lift repair parts should meet or exceed OEM specifications. Repairs should only be completed by a qualified lift technician.
- The vehicle manufacturer's recommendations should be used for spotting and lifting the vehicle.

LIFT OPERATION / SAFETY

- It is important that you know the load limit. Be careful that you do not overload the lift. If you are unsure what the load limit is, check the data plate found on one of the lift columns or contact the manufacturer.
- The center of gravity should be followed closely to what the manufacturer recommends.
- Always make sure you have proper overhead clearance. Additionally, check that attachments, (vehicle signs, campers, antennas, etc.) are not in the way.
- Be sure that prior to the vehicle being raised, the doors, trunk and hood are closed securely.
- Prior to being raised, make sure there is no one standing closer than six feet from the lift.
- After positioning the vehicle on the lift runways, set the emergency brake, make sure the ignition is off, the doors are closed, overhead obstructions are cleared and the transmission is in neutral.
- Double check that the automatic chock devices are in position and then when the lift is raised, observe the chocks.
- Place pads or adapters in the correct position under the recommended contact points.
- The lift should be raised just until the vehicle's wheels are about one foot off the ground. If contact with the vehicle is uneven or it appears that the vehicle is not sitting secure, carefully lower the lift and readjust.

- Always consider potential problems that might cause a vehicle to slip, i.e., heavy cargo, undercoating, etc.
- Pay attention when walking under a vehicle that is up on the hydraulic lift.

- DO NOT** leave the controls while the lift is still in motion.
- DO NOT** stand directly in front of the vehicle or in the bay when vehicle is being loaded or driven into position.
- DO NOT** go near vehicle or attempt to work on the vehicle when being raised or lowered.
- REMAIN CLEAR** of lift when raising or lowering vehicle.
- DO NOT** rock the vehicle while on the lift or remove any heavy component from vehicle that may cause excessive weight shift.
- DO NOT** lower the vehicle until people, materials and tools are clear
- ALWAYS ENSURE** that the safeties are engaged and lowered on to the safety ladders before any attempt is made to work on or near vehicle.
- Some vehicle maintenance and repair activities may cause the vehicle to shift. Follow the manufacturer's guidelines when performing these operations. The use of jack stands or alternate lift points may be required when completing some repairs.
- READ AND UNDERSTAND** all safety warning procedures before operating lift.
- KEEP HANDS AND FEET CLEAR.** Remove hands and feet from any moving parts. Keep feet clear of lift when lowering. Avoid pinch points.
- ONLY TRAINED OPERATORS** should operate this lift. All non-trained personnel should be kept away from work area. Never let non-trained personnel come in contact with, or operate lift.
- USE LIFT CORRECTLY.** Use lift in the proper manner. Never use lifting adapters other than what is approved by the manufacturer.
- DO NOT** override self-closing lift controls.
- CLEAR AREA** if vehicle is on danger of falling.
- STAY ALERT.** Watch what you are doing. Use common sense. Be aware.
- CHECK FOR DAMAGED PARTS.** Check for alignment of moving parts, breakage of parts or any condition that may affect its operation. Do not use lift if any component is broken or damaged.
- NEVER** remove safety related components from the lift. Do not use lift if safety related components are damaged or missing.
- When the lift is being lowered, make sure everyone is standing at least six feet away.
- Be sure there are no jacks, tools, equipment, left under the lift before lowering.
- Always lower the vehicle down slowly and smoothly.

WIRE ROPE INSPECTION AND MAINTENANCE

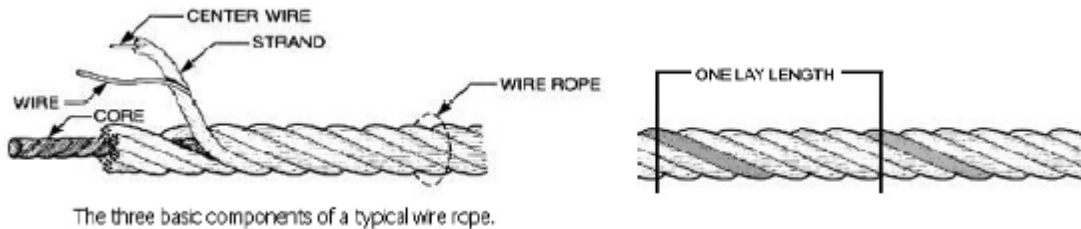
- Lifting cables should be replaced every three to five years or when visible signs of damage are apparent. **DO NOT USE LIFT WITH DEFECTIVE / WORN CABLES.**
 - Lifting cables should be maintained in a well-lubricated condition at all times. Wire rope is only fully protected when each wire strand is lubricated both internal and external. Excessive wear will shorten the life of the wire rope. The factory suggested wire rope lubricant that penetrates to the core of the rope and provides long-term lubrication between each individual strand is 90 WT gear oil or ALMASOL® Wire Rope Lubricant. In order to make sure that the inner layers of the rope remain well lubricated, lubrication should be carried out at intervals not exceeding three months during operation.
 - All sheaves and guide rollers in contact with the moving rope should be given regular visual checks for surface wear and lubricated to make sure that they run freely. This operation should be carried out at appropriate intervals generally not exceeding three months during operation. For all sheave axles, the factory recommends standard wheel bearing grease.
- For all sheaves and / or guide rollers, the factory recommends 90 WT gear oil or similar heavy lubricant applied by any method including pump / spray dispensing, brush, hand and / or swabbing.

HOW OFTEN TO INSPECT

- Lifting cables should be visually inspected at least once each day when in use, as suggested by American Petroleum Institute (API) RP54 guidelines.
- Any lifting cables that have met the criteria for removal must be immediately replaced.

WHEN TO REPLACE LIFTING CABLES DUE TO BROKEN WIRES

- ❑ Lifting cables should be removed from service when you see six randomly distributed broken wires within any one lay length, or three broken wires in one strand within one lay length.



OTHER REASONS TO REPLACE LIFTING CABLES

- ❑ Corrosion that pits the wires and / or connectors.
- ❑ Evidence of kinking, crushing, cutting, bird-caging or a popped core.
- ❑ Wear that exceeds 10% of a wire's original diameter.
- ❑ Evidence of heat damage.

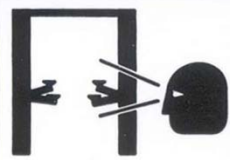
HOW TO FIND BROKEN WIRES

- ❑ The first step is to relax your rope to a stationary position and move the pick-up points off the sheaves. Clean the surface of the rope with a cloth — a wire brush, if necessary — so you can see any breaks.
- ❑ Flex the rope to expose any broken wires hidden in the valleys between the strands.
- ❑ Visually check for any broken wires. One way to check for crown breaks is to run a cloth along the rope to check for possible snags.
- ❑ With an awl, probe between wires and strands and lift any wires that appear loose. Evidence of internal broken wires may require a more extensive rope examination.



SAFETY INSTRUCTIONS

Read operating and safety manuals before using lift.



SAFETY INSTRUCTIONS

Proper maintenance and inspection is necessary for safe operation.

SAFETY INSTRUCTIONS



Do not operate a damaged lift.

The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style

Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL 32903

They are protected by copyright. Set of labels may be obtained from ALI or its member companies

© 1992 by ALI, Inc.

ALI/WL101e



WARNING
Clear area if vehicle is in danger of falling.



WARNING
Position vehicle with center of gravity midway between adapters.



WARNING
Remain clear of lift when raising or lowering vehicle.



WARNING
Avoid excessive rocking of vehicle while on lift.



WARNING
Do not override self-closing lift controls.



WARNING
Keep feet clear of lift while lowering.

The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.

Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL 32903.

They are protected by copyright. Set of labels may be obtained from ALI or its member companies.

© 1992 by ALI, Inc.

ALI/WL101w

⚠ CAUTION



Lift to be used by trained operator only.

©


⚠ CAUTION



Authorized personnel only in lift area.

©

⚠ CAUTION



Use vehicle manufacturer's lift points.

©

⚠ CAUTION



Always use safety stands when removing or installing heavy components.

©

⚠ CAUTION



Use height extenders when necessary to ensure good contact.

©

⚠ CAUTION



Auxiliary adapters may reduce load capacity.

©

The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.

Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL. 32903.

They are protected by copyright. Set of labels may be obtained from ALI or its member companies.

©1992 by ALI, Inc. ALI/WL101c

⚠ WARNING

WIRE ROPE INSPECTION AND MAINTENANCE

- Lifting cables should be replaced every three years or when visible signs of damage are apparent. **DO NOT USE LIFT WITH DEFECTIVE: WORN CABLES.**
- Wire rope should be maintained in a well-lubricated condition at all times. Wire rope is only fully protected when each wire strand is lubricated both internally and externally. Excessive wear will shorten the life of the wire rope. The factory suggested wire rope lubricant that penetrates to the core of the rope and provides long term lubrication between each individual strand is AMSOIL Synthetic Open Gear and Wire Rope Compound or 90WT gear oil or similar heavy lubricant. In order to make sure that the inner layers of the rope remains well lubricated, lubrication should be carried out at intervals not exceeding three months during operation.
- All sheaves and guide rollers in contact with the moving rope should be given regular visual checks for surface wear and lubricated to make sure that they run freely. This operation should be carried out at appropriate intervals generally not exceeding three months during operation. For all sheave axles, the factory recommends standard wheel bearing grease. For all sheaves and /or guide rollers, the factory recommends 90 WT gear oil or similar heavy lubricant applied by any method including pump / spray dispensing, brush, hand and /or swabbing.

Failure to read, understand, and follow these instructions may cause death or serious injury.
Read and understand these instructions before using lift.

SAFETY INSTRUCTIONS

If attachments, accessories or configuration modifying components that are located in the load path, affect operation of the lift, affect the lift electrical listing or affect intended vehicle accommodation are used on this lift and, if they are not certified for use on this lift, then the certification of this lift shall become null and void. Contact the participant for information pertaining to certified attachments, accessories or configuration modifying components.

www.autolift.org ©2007 by ALI, Inc. ALI / WLSIA01

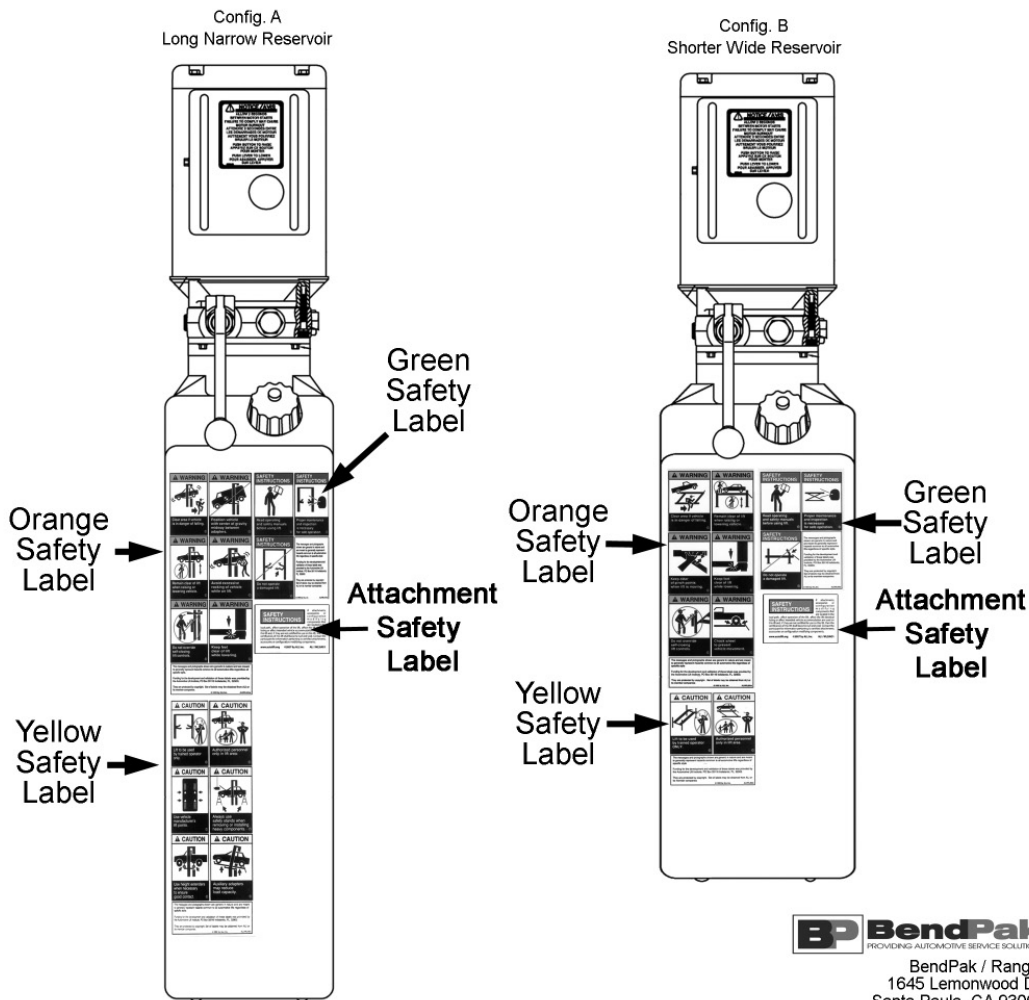
Important Safety Label Placement Guidelines

Equipment: Lifts

REVISED 06-05-08

⚠WARNING

THESE ANSI/ALI ALCTV-2006 MANDATED SAFETY LABELS ARE PROVIDED FOR THIS PRODUCT FOR THE PROTECTION OF THE OPERATOR AND ANY PERSON(S) working near the lift. The safety stickers must be installed as per the instructions below prior to the completion of installation. Failure to properly install warning labels could fail to warn and lead to serious personal injury or death to operator or bystander or damage to property. Be sure everyone who operates this equipment understands all the information, caution, warning and danger labels. Keep the labels clean so they are legible. This applies to all caution, warning and danger labels. It is the OWNER'S RESPONSIBILITY to provide information to all operators for safe operation of this lift. Replace any damaged or worn labels. Once any part of a label becomes illegible, it should be replaced. The part numbers for the labels are located in the lower right corner of the label. Replacement labels may be ordered through your dealer or the address below. When installing and/or replacing labels, be sure the surface is clean and dry, peel the backing off the label, and apply to the reservoir as shown below. Be sure to wipe with a clean cloth to rub out all air bubbles



EP BendPak
PROVIDING AUTOMOTIVE SERVICE SOLUTIONS

BendPak / Ranger
1645 Lemonwood Dr.
Santa Paula, CA 93060
Tel: 1-805-933-9970 / www.bendpak.com

General Four Post Safety Warnings

All the general two-post car lift warnings; except those specifically mentioning two-post car lift lifts.

ENSURE THAT THE FRONT POST UPPER AND LOWER SLIDE BLOCKS ARE ORIENTED AS SHOWN IN FIGURE 3.3 ON PAGE 11. BEFORE PROCEEDING.

IMPORTANT NOTE!

It is important that the SLACK SAFETY LOCK IS CLEARED. The slack safety lock must never rest on the safety ladder.

DANGER

DO NOT PROCEED with cable installation or go near the lift work area unless visual confirmation is made of ALL safety locks. ALL locks MUST be engaged before proceeding. Failure to comply with these instructions may result in severe personal injury or death. (See page 13.)

DANGER!

Failure to route lifting cables as described may lead to serious personal injury and / or death to operator or bystander and / or may cause damage to property.

RISK OF EXPLOSION!

This equipment has internal arcing or parts that may spark and should not be exposed to flammable vapors. Motor should not be located in a recessed area or below floor level. NEVER expose motor to rain or other damp environments. DAMAGE TO MOTOR CAUSED BY WATER IS NOT COVERED UNDER WARRANTY.

IMPORTANT NOTE:

CAUTION Never operate the motor on line voltage less than 208V. Motor damage may occur which is not covered under warranty. Have a certified electrician run appropriate power supply to motor. Size wire for 25 amp circuit. See Motor Operating Data Table. IMPORTANT: Use separate circuit for each power unit. Protect each circuit with time delay fuse or circuit breaker. For single phase 208V - 230V, use 25 amp fuses.

Three phase 208V - 240V, use 25 amp fuse. For three phase 400V and above, use 15 amp fuse. All wiring must comply with NEC and all local electrical codes.

All Cable Nuts MUST be tightened on each end until there is at least one inch of threads protruding through the nut. Failure to do so could result in serious injury or death.

KEEP HANDS AND FEET CLEAR. Remove hands and feet from any moving parts. Keep feet clear of lift when lowering. Avoid pinch points. Safety locks may not engage at exactly the same time when vehicles are being raised. They should be close. Be sure that all four corners have passed the SAME safety ladder bar slot before lowering lift on the safety locks. NEVER lower lift on different safety lock position or damage to the lift may result.

WARNING!

Wheels Chock must be used on the rear wheels. (See Fig 18.1)

VISUALLY CONFIRM THAT ALL PRIMARY SAFETY LOCKS ARE ENGAGED BEFORE ENTERING WORK AREA.

Suspension components on this lift are intended to raise and lower lift only and are not meant to be load holding devices. Remain clear of elevated lift unless visual confirmation is made that all primary safety locks are fully engaged and the lift is LOWERED onto the safety locks, Refer to installation / operation manual for proper safety lock procedures and / or further instruction.

! DANGER

THE MAXIMUM LIFTING CAPACITY FOR THIS LIFT IS DESCRIBED BELOW

Maximum Lifting Capacity
14,000 Lbs / 6,350 Kg.

Maximum Lifting Capacity
Two Axle Vehicle / Front Axle
7,000 Lbs / 3,175 Kg.

Maximum Lifting Capacity
Two Axle Vehicle / Rear Axle
7,000 Lbs / 3,175 Kg.

Exceeding the weight capacity of this lift can damage lift and/or property and may cause personal harm, injury or death to operators and/or bystanders. All vehicles MUST be positioned on lift with CENTER OF GRAVITY midway between adapters and/or centered on runways. Damage to lift due to overloading or misuse IS NOT covered under warranty.

! WARNING

WIRE ROPE INSPECTION AND MAINTENANCE

- Lifting cables should be replaced every three years or when visible signs of damage are apparent. **DO NOT USE LIFT WITH DEFECTIVE: WORN CABLES.**
- Wire rope should be maintained in a well-lubricated condition at all times. Wire rope is only fully protected when each wire strand is lubricated both internally and externally. Excessive wear will shorten the life of the wire rope. The factory suggested wire rope lubricant that penetrates to the core of the rope and provides long term lubrication between each individual strand is AMSOIL Synthetic Open Gear and Wire Rope Compound or 90WT gear oil or similar heavy lubricant. In order to make sure that the inner layers of the rope remains well lubricated, lubrication should be carried out at intervals not exceeding three months during operation.
- All sheaves and guide rollers in contact with the moving rope should be given regular visual checks for surface wear and lubricated to make sure that they run freely. This operation should be carried out at appropriate intervals generally not exceeding three months during operation. For all sheave axles, the factory recommends standard wheel bearing grease. For all sheaves and /or guide rollers, the factory recommends 90 WT gear oil or similar heavy lubricant applied by any method including pump / spray dispensing, brush, hand and /or swabbing.

Failure to read, understand, and follow these instructions may cause death or serious injury.
Read and understand these instructions before using lift.

SAFETY INSTRUCTIONS



Read operating and safety manuals before using lift.

©

SAFETY INSTRUCTIONS



Proper maintenance and inspection is necessary for safe operation.

©

SAFETY INSTRUCTIONS



Do not operate a damaged lift.

©

The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.

Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL. 32903.

They are protected by copyright. Set of labels may be obtained from ALI or its member companies.

© 1992 by ALI, Inc.

ALI/WL200a

⚠ WARNING



Clear area if vehicle is in danger of falling.

©

⚠ WARNING



Remain clear of lift when raising or lowering vehicle.

©

⚠ WARNING



Keep clear of pinch points when lift is moving.

©

⚠ WARNING



Keep feet clear of lift while lowering.

©

⚠ WARNING



Do not override self-closing lift controls.

©

⚠ WARNING



Chock wheel to prevent vehicle movement.

©

The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style

Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL 32903.

They are protected by copyright. Set of labels may be obtained from ALI or its member companies

© 1992 by ALI, Inc. ALI/WL200w

⚠ CAUTION



Lift to be used by trained operator ONLY.

©

⚠ CAUTION



Authorized personnel only in lift area.

©

The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style

Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL 32903.

They are protected by copyright. Set of labels may be obtained from ALI or its member companies

© 1992 by ALI, Inc. ALI/WL200c

General Rolling Jack Safety Warnings

All the general two-post car lift warnings; except those specifically mentioning two-post car lift lifts.

DANGER !

IT IS THE RESPONSIBILITY OF THE OWNER / INSTALLER OF THIS ROLLING BRIDGE JACK TO ENSURE THAT THE LIFT UPON WHICH THE ROLLING BRIDGE JACK IS INSTALLED HAS BEEN PROPERLY INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

- I have visually inspected the lift on which the Rolling Bridge Jack is to be installed and verified the lift to be in good condition and free of defects. I understand that installing a rolling jack on a lift in poor condition could cause lift failure resulting in personal injury or death.
- I understand that this Rolling Bridge Jack is to be installed **ONLY** on a lift manufactured by BendPak Incorporated and that the capacity of the Rolling Bridge Jack(s) is consistent with the maximum capacity of the lift that it being installed on.

DANGER !

The AXLE WEIGHT of the vehicle being raised should not exceed the maximum capacity of the Rolling Bridge Jack. Consult the vehicle manufacturer for specifications.

WARNING!

When removing or moving the Rolling Bridge Jack from shipping pallet pay close attention as the Jack may move and can cause injury. Prior to removing the strapping or bolts make sure the Jack is held securely by a fork lift or some other heavy lifting device.

DANGER!

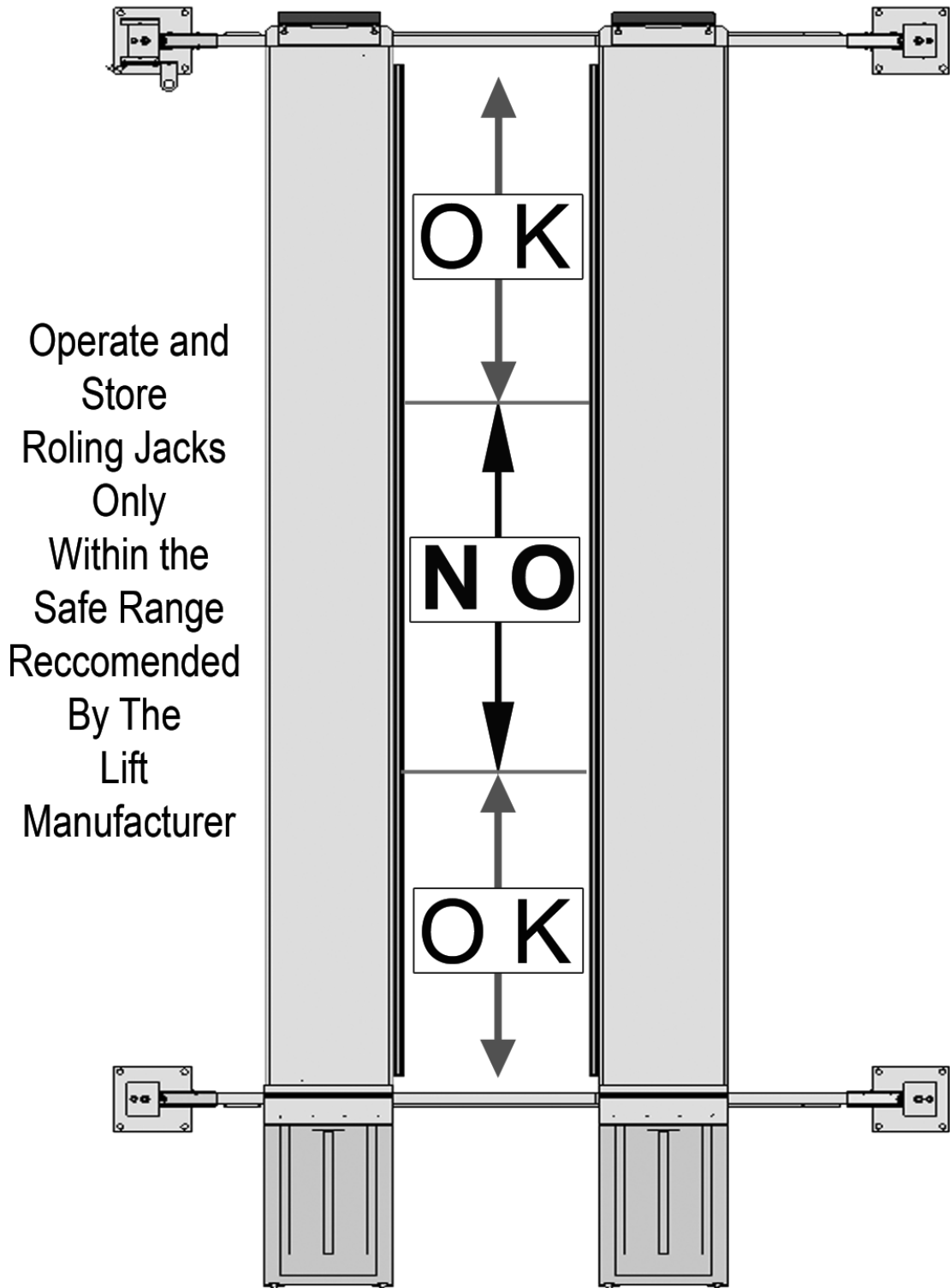
DISCONNECT AND / OR RELEASE THE PRESSURE FROM THE AIR SUPPLY SYSTEM / HOSES BEFORE PERFORMING ANY INSTALLATION OR MAINTENANCE OF THE AIR SUPPLY SYSTEM.

DANGER!

THE AIR SUPPLY SHOULD BE TO 20 CFM (.57 M³ / MIN.) AND 100 PSI (7 BAR). AIR SUPPLY SHOULD BE REGULATED TO A MAXIMUM OF 125 PSI (8.6 BAR)

WARNING!

NEVER USE MORE THAN 5 INCHES OF LIFT PAD ADAPTER HEIGHT.



Operate and
Store
Rolling Jacks
Only
Within the
Safe Range
Recommended
By The
Lift
Manufacturer

General Rolling Jack Safety Warnings

All the general two-post car lift warnings; except those specifically mentioning two-post car lift lifts.

NOTE:

This lift is designed to be installed in groups (bolted together) of three units or more. For installation of single or double units only it is suggested to anchor to the floor using 3 / 4" concrete anchors.

Consult a Pavement Contractor to determine if your Asphalt Surface meets Recommended Minimum Pavement Thickness and Design to Support Auto Stacker (s).

IMPORTANT !

Prior to assembly of the Lift components, you must determine the Locked Height of the lift, Dimension "B". Use the chart (See Fig 3.2) to determine where to bolt the Safety Stop Block on the Powerside Lift Head.

Do not attempt to proceed unless you have additional trained personnel / manpower to assist, a forklift and cargo straps or chains and / or a lifting crane capable of lifting 2,000 lbs. or more.

NOTE:

REVIEW AND UNDERSTAND THE WIRING DIAGRAMS IN STEP 18 BEFORE PROCEEDING. THE ELECTRICAL WIRING DIAGRAMS OUTLINE HOW THE WIRES SHOULD BE RUN THROUGH THE CONTROL BAR. BE SURE YOU HAVE A THOROUGH UNDERSTANDING OF THE CABLE ROUTING BEFORE CUTTING ANY CABLES TO LENGTH.

DANGER!

Because the lift is not raised high enough to reach the first safety lock position, DO NOT work on or near lift until support stands are in place to support the platform(s). Always ensure support stands and / or the safeties are engaged before any attempt is made to work on or near the lift / vehicle.

1. Before lowering vehicle, be sure all personnel are clear of the lift and surrounding area. Pay careful attention to overhead clearances. Ensure all tools and equipment have been cleared from under the lift.



PARKING LIFT OPERATION WARNINGS

Read the entire operation manual, and operation instructions shown on the reverse side of this placard before operating this parking lift. If any questions arise as to the safety or operation of this lift contact your property manager, building engineer, local parking lift dealer or call BendPak at 1 (805) 933-9970. Always use caution when operating this lift. Never allow children or persons under the influence of drugs or alcohol to use this lift. Serious injury, property damage, and/or death can occur if this lift is improperly used.

WARNING

ALWAYS double-check under clearance BEFORE driving vehicle under lift platform.

WARNING

Never place any object or any part of your body on the legs or any other part of the lift during operation. Serious injury or death can occur.

WARNING

- Read the entire operation manual before operating this parking lift.
- NEVER leave the lift unattended when it is partially raised or lowered.
- DO NOT raise the lift platform when the lift is empty. The lifts are designed to be lowered with the weight of a vehicle on the platform. Empty lifts will take much longer to lower.
- Always use caution when operating this lift. Never allow children or persons under the influence of drugs or alcohol to use this lift.
- Serious injury, property damage, and/or death can occur if this lift is improperly used.
- Keep hands and feet clear. Remove hands and feet from any moving parts. Keep feet clear of lift when lowering. Avoid pinch points.
- Only trained operators should operate this lift. All non-trained personnel should be kept away from work area. Never let non-trained personnel come in contact with, or operate lift.
- Guard against electric shock. This lift must be grounded while in use to protect the operator from electric shock.
- Risk of explosion. This lift has internal arcing or sparking parts which should not be exposed to flammable vapors.
- Maintain lift with care. Keep lift clean for better and safe performance. Follow manual for proper lubrication and maintenance instructions. Keep control handles and/or buttons dry, clean and free from grease and oil.
- Stay alert - watch what you are doing. Use common sense and always be aware.
- Check for damaged parts. Check for alignment of moving parts, breakage of parts or any condition that may affect safe operation of the lift. Do not use lift if any component is broken or damaged.
- Never remove safety related components from the lift. Do not use lift if safety related components are damaged or missing.

IMPORTANT NOTE

The custom lock-setting of the lift determines the height of the vehicles that can be safely parked underneath the lift. Make sure that you are using only vehicles that are of the proper height for the custom lock-setting. If the setting of your lift needs to be changed, contact your parking lift dealer.

PARKING LIFT OPERATION INSTRUCTIONS

Read the entire operation manual and warning instructions shown on the reverse side of this placard before operating this parking lift.

PRE-LIFTING STAGE

1. Drive top vehicle onto the elevating platform. Vehicles may be driven in nose first or backed in.
2. Drive until the top vehicle's forward tires rest against the forward wheel stop.
3. Turn off car engine, engage safety brake, and place the vehicle's gear selector in Park. If vehicle is manual transmission, place the transmission in first gear.
4. Walk to the rear of the platform and lift up on the red handle to engage the rear tire stops.
5. Check the front of the lift to make sure that the vehicle's forward tires are securely set against the wheel stop.
6. Walk around the lift to ensure no obstructions will interfere with the vehicle being lifted.
7. Position yourself in front of the lift within reach of the operator control console.

LIFTING STAGE

1. Once all precautions above are followed, check around and above the lift to ensure that no objects are in the platform's way, and that no persons (except the lift operator) are within 10 feet.
2. To raise the lift platform with top vehicle to desired height, turn the operator switch on the control console to the right position and hold.
3. During operation, observe the entire perimeter of the lift as well as overhead to ensure there are no obstructions that may damage vehicle and / or lift.
4. ALWAYS raise the platform until it reaches its top custom-set lock position.
5. If a low ceiling is overhead be careful when lifting. NEVER allow the top vehicle to come in contact with any overhead structure or object.
6. Once top position is reached, release the operator switch to its neutral position then turn and hold the operator switch to the left position to lower the platform with vehicle onto the lift's mechanical locks. Hold the operator switch in the left position until the platform is resting securely on the locks.
7. Walk around, never under the raised platform.

REMOVAL OF LOWER VEHICLE

1. Carefully drive out the lower vehicle after making sure all is clear before lowering the lift platform.

LOWERING THE LIFT

1. Walk around the lift to make sure nothing is below or near the lift platform's entire lower area to prepare for descent.
2. Be certain that no person (except the lift operator) is within 10 feet of the lift area.
3. Turn and hold the operator switch to the right position to elevate the lift approximately two inches or enough to allow release of the mechanical locks and release operator switch to its neutral position.
4. While pulling back and holding the lock release safety lever located below the control console, turn and hold the operator switch to the left position to lower the lift platform with top vehicle.
5. When lowering the lift always be watchful for objects, persons or animals that may wander under the lift platform during operation. Cease operation if area becomes obstructed.
6. KEEP HANDS AND FEET CLEAR OF ALL MOVING PARTS AND PINCH POINTS.
7. Release the lock release safety lever and operator switch upon full decent of platform.
8. Walk to the rear of the lift and lower the wheel stops / ramps.
9. Carefully drive out the lower vehicle after making sure all is clear before lowering the lift platform.



PLACEMENT OF LOWER VEHICLE

1. Once all precautions of the Pre-Lifting and Lifting Stage have been followed, drive the lower vehicle under the lift platform until the forward tires reach the front wheel bar, or, to the location where the car is properly positioned under the lift to allow clearance of the doors and mirrors.
2. Turn off the engine, set the parking brake and place in the gear selector in Park, or place manual transmission in gear.

P/N 5905569

General PCL Safety Warnings

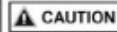
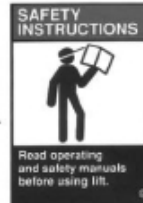
All the general two-post car lift warnings; except those specifically mentioning two-post car lift lifts.

IMPORTANT SAFETY INSTRUCTIONS



Lift to be used by trained operator only.

Read operating and safety manuals before using lift.



When moving lift, be careful to avoid tipping.

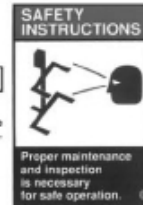


Do not operate a damaged lift.



Remain clear of lift when raising or lowering vehicle.

Proper maintenance and inspection is necessary for safe operation.

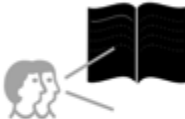










Do not drive over or pinch electrical cables.



Keep feet clear of lift while lowering.



Safety Instruction	Warning	Caution
		
<p>It is necessary to refer to the complete operation instructions, especially for trouble shooting. The operation of the lift is permitted by authorized persons only.</p>	<p>Never overload lift</p>	<p>The field of motion of the load and of the load carrying device shall be free of obstructions.</p>
Safety Instruction	Warning	Caution
		
<p>Proper inspection and maintenance before safe operation.</p>	<p>It is forbidden to climb onto the load or load carrying device when they are raised unless via a specifically designed access.</p>	<p>It shall draw attention to the safe method of raising the load and to the rule that, after raising a short distance, the vehicle shall be checked to ensure that it is correctly and safely positioned.</p>
Warning	Warning	Caution
		
<p>It is forbidden for people to stand in the field of motion of the load and the load carrying device during the movement.</p>	<p>Position automobile with center of gravity in midline between adapters.</p>	<p>It shall draw attention to the rule that the load carrying device shall be observed by the operator throughout the motion of the lift.</p>

IMPORTANT SAFETY INSTRUCTIONS



WARNING

Locate lift on firm, level surface, preferably concrete.



WARNING

Be sure intended lifts are moving together evenly.



WARNING

All lifting forks must properly engage vehicle tires or supports.



WARNING

Clear area if vehicle is in danger of falling.



CAUTION

Check for overhead obstructions before raising vehicle.



CAUTION

Authorized personnel only in lift area.

General X-Rack Safety Warnings

All the General Two-post car lift warnings; except those specifically mentioning two-post car lift lifts.

IMPORTANT NOTE:

The lift should be installed by qualified lift installers only who are familiar with this particular lift model and the requirements thereof. The frame on this lift **MUST NOT** be twisted, bent or otherwise misaligned by un-level floors or improper anchoring. Misalignment will cause damage to the lift. Maximum out-of-level at anchors should not exceed 1" side to side or 2" front to rear. Shim at anchors if floor is crowned more than 1 / 2" between front to rear anchors.

CAUTION!

Your new lift was designed primarily for performing two wheel or four wheel alignments on passenger vehicles and light trucks. The lift is a "Scissors" type whereas the lift is raised by a scissors actuating lifting system. No forward or rearward movement takes place unlike "Parallelogram" style lifts which move forward during the lifting process. The lift is powered by four hydraulic cylinders located within the runway assemblies. The motor assembly or power unit is a self contained electric / hydraulic motor and pump assembly that incorporates a push button switch for raising and push button switches for lowering the lift. The lift has multiple locking positions that should be engaged before any attempt is made to work on or near vehicle.

IMPORTANT NOTE:

The hydraulic hoses have been pre-installed for your convenience. BE CAREFUL not to cut the Hydraulic Hoses during the installation process. The Hoses were pre-routed for a DRIVER SIDE / LEFT SIDE POWER CONSOLE installation. The POWER CONSOLE can be located on either the LEFT SIDE or RIGHT SIDE. If you desire a PASSENGER SIDE / RIGHT SIDE POWER CONSOLE installation it will be necessary to re-route the main POWER HOSE. Follow the HOSE ROUTING instructions on the following page for proper Hose routing.

IMPORTANT NOTE:

DO NOT anchor the lift frames to the floor until the lift assembly is completed and is raised and lowered at least six times to ensure it is level. IF THE LIFT binds or the frames twist when the lift is raised then make adjustments accordingly before anchoring to the floor.

WARNING!

EQUALIZER VALVES MUST REMAIN IN THE CLOSED POSITION DURING NORMAL OPERATION. FAILURE TO CLOSE VALVES DURING NORMAL OPERATION MAY DAMAGE LIFT STRUCTURE.

General MD-6XP Safety Warnings

Most of the General Two-post car lift warnings; except those specifically mentioning two-post car lift lifts.

WARNING!

ALWAYS set the adjustable arms and pads under the proper lifting points as indicated in the Lifting Guide or owner's manual of the vehicle.

WARNING

Drive car completely over lift.



NEVER OVERLOAD LIFT
Check for 1" minimum clearance
between car and lift before raising.



DO NOT park on, or load lift
in a fully lowered position
or damage may result.

WARNING