

Please read through this manual before operation

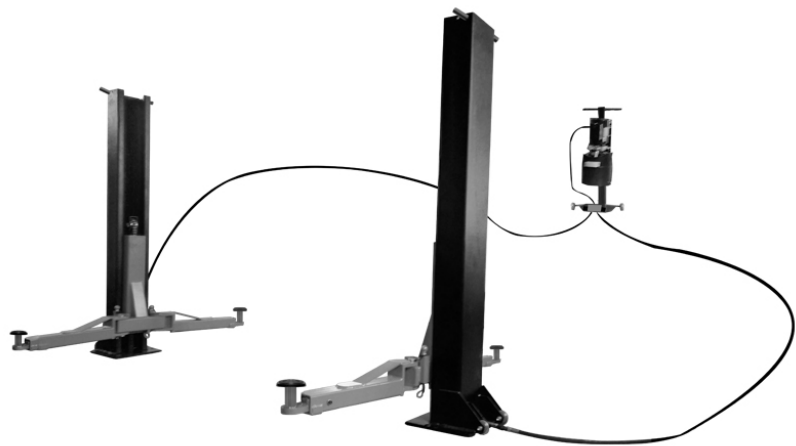
# INSTALLATION AND OPERATION MANUAL



Your safety our standards



**3000kg**



## RECEIVING

The shipment should be thoroughly inspected as soon as it is received. The signed Bill of Lading is acknowledgement by the shipping carrier as receipt of this product as listed in your invoice as being in a good condition of shipment.

If any of these goods listed on this Bill of Lading are missing or damaged, do not accept goods until the shipping carrier makes a notation on the freight bill of the missing or damaged goods. Do this for your own protection.

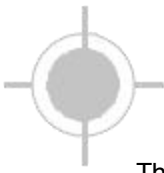
Keep this operation manual near the machine at all times. Make sure that ALL USERS read this manual.

## BE SAFE

Your new lift was designed and built with safety in mind. However, your overall safety can be increased with proper training and thoughtful operation on the part of the operator. DO NOT operate or repair this equipment without reading this manual and the important safety instructions shown inside. Keep this operation manual near the lift at all times. Make sure that ALL USERS read and understand this manual.

## IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

PLEASE READ THE ENTIRE CONTENTS OF THIS MANUAL PRIOR TO INSTALLATION AND OPERATION. BY PROCEEDING WITH LIFT INSTALLATION AND OPERATION YOU AGREE THAT YOU FULLY UNDERSTAND THE FULL CONTENTS OF THIS MANUAL. FORWARD THIS MANUAL TO ALL OPERATORS. FAILURE TO OPERATE THIS EQUIPMENT AS DIRECTED MAY CAUSE INJURY OR DE



This instruction manual has been prepared especially for you. Your new lift is the product of over 15 years of continuous research, testing and development; it is the most technically advanced lift on the market today.

## **READ THIS ENTIRE MANUAL BEFORE INSTALLATION & OPERATION BEGINS**

### **PRODUCT WARRANTY**

What is not covered under this warranty:

- a. Any failure that results from Purchaser's abuse, neglect or failure to operate, maintain or service product in accordance with instructions provided in the owner's manual(s) supplied.
- b. Any damage caused by overloading lift beyond rated capacity.
- c. Items or service normally required to maintain the product, i.e. lubricants, oil, etc.
- d. Items considered general wear parts such as rubber pads, lifting cables, etc. unless wear or failure is a direct result of manufacturer defect due to material and/or workmanship.
- e. Any component damaged in shipment or any failure caused by installing or operating lift under conditions not in accordance with installation and operation guidelines or damaged by contact with tools or surroundings.
- f. Motor or pump failure caused by rain, excessive humidity, corrosive environments or other contaminants.
- g. Rusted components due to improper maintenance or corrosive environments.
- h. Cosmetic defects that do not interfere with product functionality.
- i. Damage due to incorrect voltage or improper wiring.
- j. Any incidental, indirect, or consequential loss, damage or expense that may result from any defect, failure or malfunction of Inc. product.
- k. All electrical components (excluding power unit) are guaranteed for one year against defects in workmanship and/or materials when the lift is installed and used according to specifications.

### **NOTE:**

Every effort has been taken to ensure complete and accurate instructions have been included in this manual, however, possible product updates, revisions and or changes may have occurred since this printing. Our reserves the right to change specifications without incurring any obligation for equipment previously or subsequently sold. Not responsible for typographical errors





## 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 insure proper installation and operation of your lift. Failure to comply with these instructions can result in serious bodily harm and void 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

## DEFINITIONS OF HAZARD LEVELS

Identify the hazard levels used in this manual with the following definitions and signal words:



Watch for this symbol: It Means: Immediate hazards which will result in severe personal injury or death.



Watch for this symbol: It Means: Hazards or unsafe practices which could result in severe personal injury or death.



Watch for this symbol. It Means: Hazards or unsafe practices which may result in minor personal injury, product or property damage.

## OWNER'S RESPONSIBILITY

- ◆ 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 unit, and are properly supervised.
- ◆ Allow unit operation only with all parts in place and operating safely.
- ◆ Carefully inspect the unit on a regular basis and perform all maintenance as required.
- ◆ Service and maintain the unit only with authorized or approved replacement parts.
- ◆ Keep all instructions permanently with the unit and all decals on the unit clean and visible.

## BEFORE YOU BEGIN

**ceiving:**The shipment should be thoroughly inspected as soon as it is received. The signed bill of lading is acknowledgement by the carrier of receipt in good condition of shipment covered by your invoice. 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 and 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 lading, freight bill, invoice, and photographs, if available. Our willingness to assist in helping you process your claim does not make responsible for collection of claims or replacement of lost or damaged materials.



**INSTALLER / OPERATOR PLEASE  
READ AND FULLY  
UNDERSTAND BY PROCEEDING  
YOU AGREE TO THE FOLLOWING:**

◆ I have visually inspected the site where the lift is to be installed and verified the concrete to be in good condition and free of cracks or other defects. I understand that installing a lift on cracked or defective concrete could cause lift failure resulting in personal injury or death..

◆ 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 and any charges.

◆ I understand that the 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- 2011, and that I will be responsible for all charges related to any special regional structural and/or seismic anchor- ing 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 above equipment model(s) are to be installed. Failure to follow danger, warning, and caution instructions may lead to serious personal injury or death to operator or bystander or damage to property.

◆ I understand that lifts are designed to be installed in indoor locations only. Failure to follow installation instructions may lead to serious personal injury or death to operator or bystander or damage to property or lift.

Failure to follow danger, warning, and caution instructions may lead to serious personal injury or death to operator or bystander or damage to property.



Please read entire manual prior to installation. Do not operate this machine until you read and understand all the dangers, warnings and cautions in this manual.

**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 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



**THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH IF NOT FOLLOWED COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OR YOURSELF AND OTHERS AND CAN CAUSE PERSONAL INJURY OR DEATH.**





# INTRODUCTION

1. Carefully remove the crating and packing materials. **CAUTION!** Be careful when cutting steel banding material as items may become loose and fall causing personal harm or injury.

2. Check the voltage, phase and proper amperage requirements for the motor shown on the motor plate. Wiring should be performed by a certified electrician only

## IMPORTANT SAFETY INSTRUCTIONS

*Read these safety instructions entirely*

### 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.

1. Read and understand all instructions and all safety warnings before operating lift.
2. Care must be taken as burns can occur from touching hot parts.
3. Do not operate equipment with a damaged cord or if the equipment has been dropped or damaged until it has been examined by a qualified service person.
4. Do not let a cord hang over the edge of the table, bench, or counter or come in contact with hot manifolds or moving fan blades.
5. If an extension cord is necessary, a cord with a current rating equal to or more than that of the equipment should be used. Cords rated for less current than the equipment may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
6. Always unplug equipment from electrical outlet when not in use. Never use the cord to pull the plug from the outlet. Grasp plug and pull to disconnect.
7. Let equipment cool completely before putting away. Loop cord loosely around equipment when storing.
8. To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids (gasoline).
9. Adequate ventilation should be provided when working on operating internal combustion engines.
10. Keep hair, loose clothing, fingers, and all parts of body away from moving parts. Keep feet clear of lift when lowering. Avoid pinch points.
11. **DANGER!** To reduce the risk of electric shock, do not use on wet surfaces or expose to rain. The power unit used on this lift contains high voltage. Disconnect power at the receptacle or at the circuit breaker switch before performing any electrical repairs. Secure plug so that it cannot be accidentally plugged in during service, or mark circuit breaker switch so that it cannot be accidentally switched on during service.



12. Use only as described in this manual. Use only manufacturer's recommended attachments.
13. **ALWAYS WEAR SAFETY GLASSES.** Everyday eyeglasses only have impact resistant lenses, they are not safety glasses.
14. Consider work environment. Keep work area clean. Cluttered work areas invite injuries. Keep areas well lit.
15. Guard against electric shock. This lift must be grounded while in use to protect operator from electric shock. Never connect the green power cord wire to a live terminal. This is for ground only.
16. Only trained operators should operate this lift. All non-trained personnel should be kept away from the work area. Never let non-trained personnel come in contact with, or operate lift.
17. **DO NOT** override self-closing lift controls.
18. Clear area if vehicle is in danger of falling.
19. **ALWAYS** make sure the safeties are engaged before attempting to work on or near a vehicle.
21. **WARNING! RISK OF EXPLOSION.** 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.
22. **MAINTAIN WITH CARE.** Keep 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.
23. Check for damaged parts. Check for alignment of moving parts, breakage of parts or any condition that may affect operation of lift. Do not use lift if any component is broken or damaged.
24. **NEVER** remove safety related components from the lift. Do not use lift if safety related components are missing or damaged.
23. **STAY ALERT.** Use common sense and watch what you are doing. Remember, **SAFETY FIRST.**





# SAVE THESE INSTRUCTIONS

**IMPORTANT NOTICE**  
THESE INSTRUCTIONS MUST BE FOLLOWED TO INSURE PROPER INSTALLATION AND OPERATION OF YOUR LIFT. FAILURE TO COMPLY WITH THESE INSTRUCTIONS CAN RESULT IN SERIOUS BODILY HARM AND VOID 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

## Selecting Site

Before installing your new lift, check the following.

- 1. **LIFT LOCATION:** Always use architect's plans when available. Check layout dimension against floor plan requirements making sure that adequate space is available.
- 2. **OVERHEAD OBSTRUCTIONS:** The area where the lift will be located should be free of overhead obstructions such as 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. Lift is designed for **INDOOR INSTALLATION ONLY**. Outdoor use permitted only if covered and dry. Always follow warnings illustrated on equipment labels.

## Floor Requirements



This lift must be installed on a solid level concrete floor with no more than 3°s of slope. Failure to do so could cause personal injury or death. A level floor is suggested for proper use and 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.



- ◆ DO NOT install or use this lift on any asphalt surface or any surface other than concrete.
- ◆ DO NOT install or use this lift on expansion seams



or on cracked or defective concrete.

- ◆ DO NOT install or use this lift on a second / elevated floor without first consulting a building architect.



**ALL MODELS MUST BE INSTALLED ON 3000 PSI CONCRETE ONLY CONFORMING TO THE MINIMUM REQUIREMENTS SHOWN ABOVE. NEW CONCRETE MUST BE ADEQUATELY CURED FOR A MINIMUM OF 28 DAYS.**

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

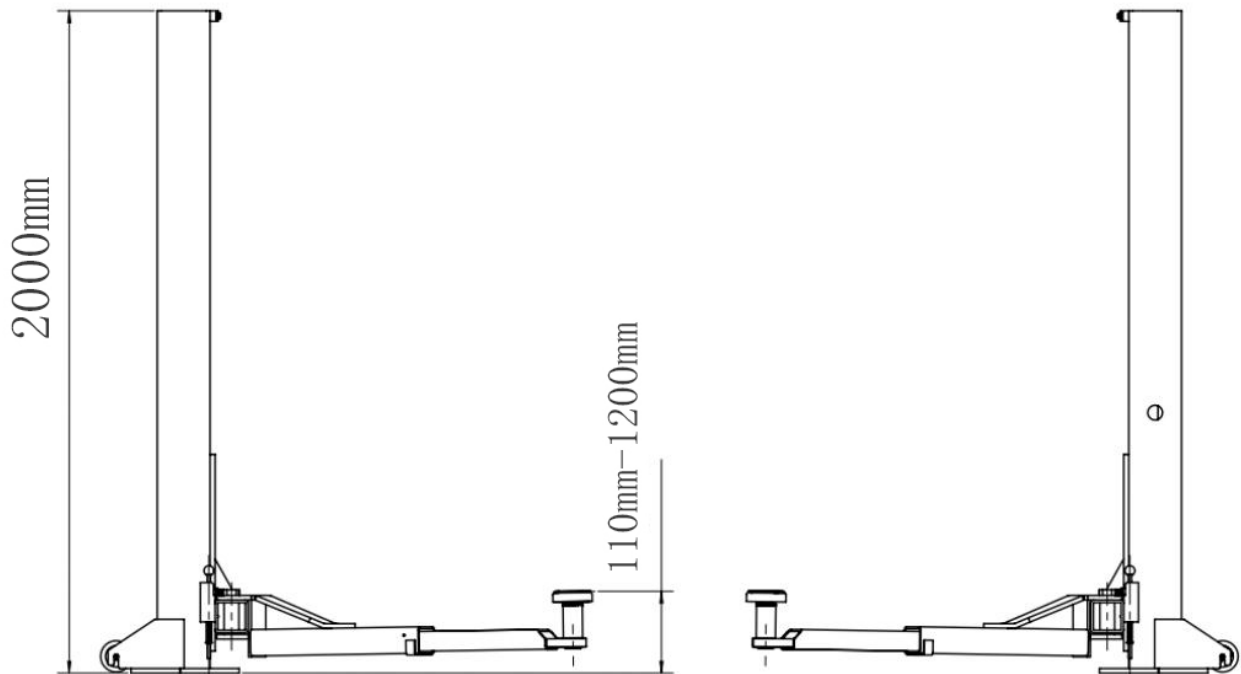




## Machine parameters

### Floorplate Chain-Drive Model Features

- Compact design, minimizes the lift wear parts and breakdown ratio
- Dual hydraulic cylinders, designed and made on ANSI standards.
- Self-lubricating UHMW polyethylene sliders and bronze bushings
- Double Point Release with dual safety design
- Standard super-symmetric arms can be used as symmetric or asymmetric



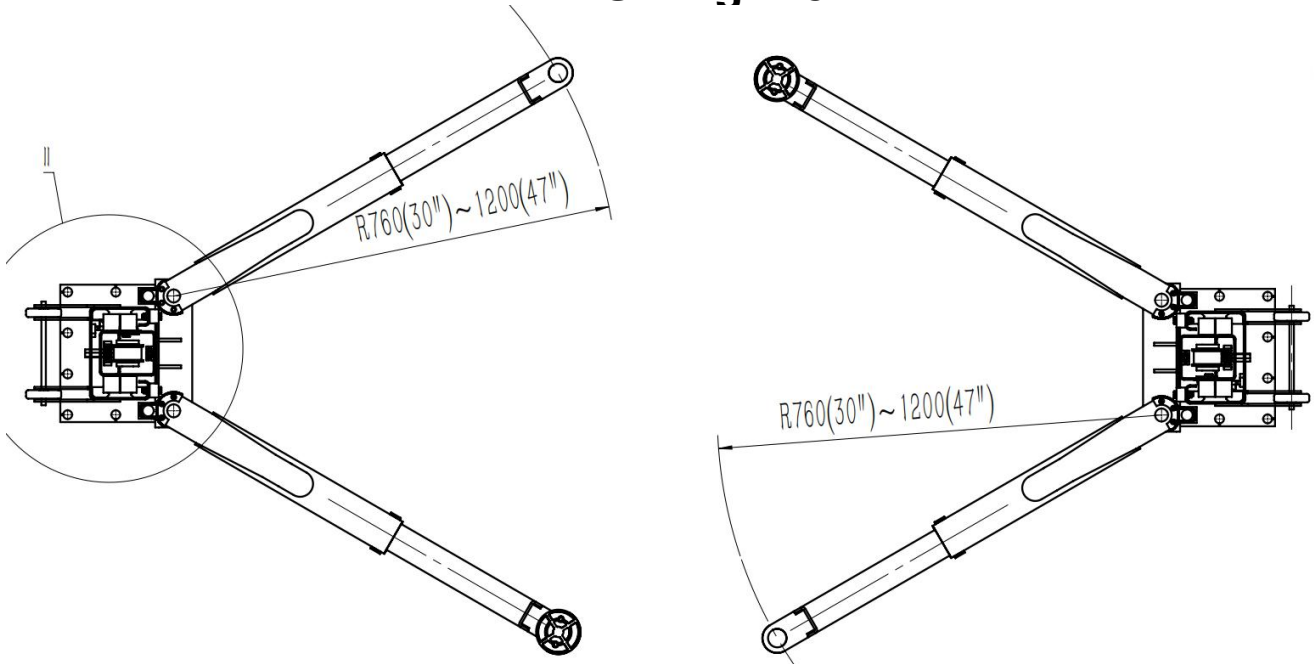
Style	Lifting Capacity	Lifting Time	Lifting Height	Overall Width	Width Between Columns	Minimum Pad Height	Motor
Floor plate, Chain-driven	3000kg 6614lbs	40S	1200mm	Adjustable	2680mm	4.5" 110mm	2.0/3.0HP

### SPECIFICATIONS

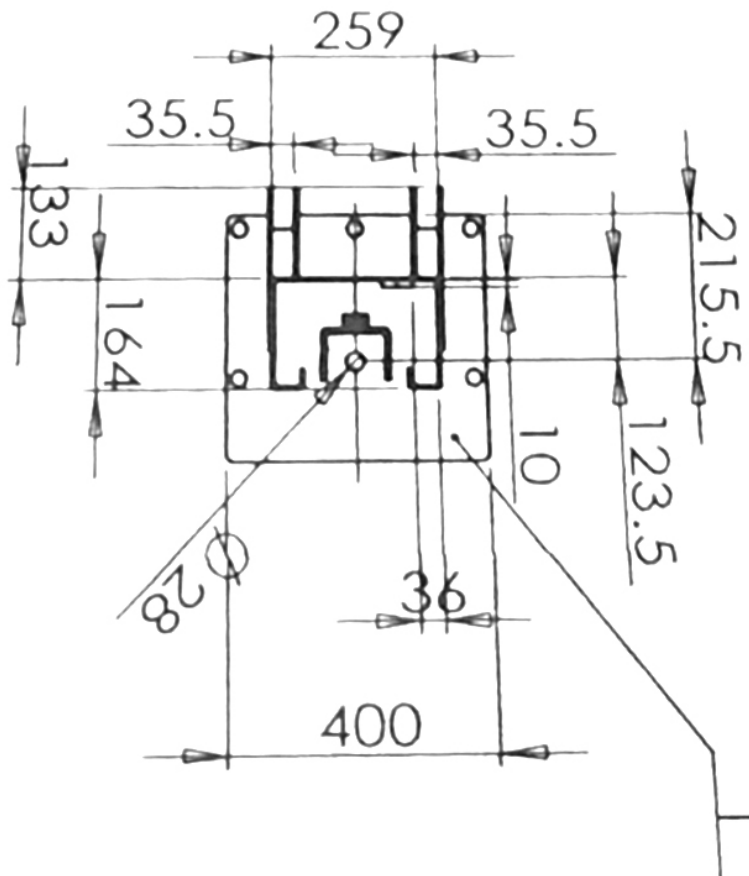




### Arm Swing View



### Column Base Plate Dimension and hole spacing diagram







## Installation Requirements

### Tools Required

Rotary Hammer Drill (3/4in /19mm)



Carpenter's Chalk



Hammer



Screw Drivers



Level Bar



Tape Measure (25ft)



Crescent Wrench (12")



Pliers



Ratchet Spanner With Socket (28#)



Allen Head Wrench (6#)



Wrench set  
(10#, 13#, 14#, 15#, 17#, 19#, 24#, 27#)



Vise Grips





## Specifications Of Concrete

Concrete must be in compliance to the specifications below.



**Failure To Do So May Result In Personal Injury or Property Damage.**

1. Concrete must have a thickness of 6.3 inches minimum and without reinforcing steel bars, and must be completely cured before the lift installation.
2. Concrete must be in good condition and must have a test strength 3,000 psi (210kg/cm<sup>2</sup>) minimum.
3. ***Floors must be level and no cracks***

### **Power Supply**

*The capacity of power must be 3 HP minimum. The electrical wire must be a minimum of 10 gauge.*





## Select the location and layout of the installation

### 1. Location of Installation

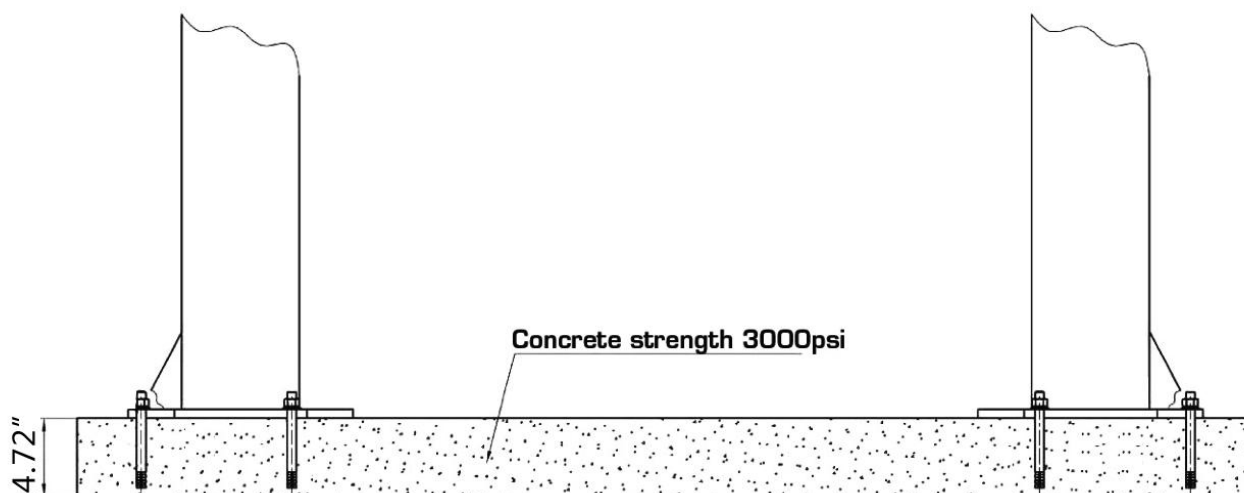
Check the installation location (concrete, layout, space size etc.) so it is suitable for lift installation.

**LIFT HEIGHT CLEARANCE NOTE: There must be 70" plus the height of typical vehicle MIN distance from top of lift to nearest obstruction**

### 2. Use A Carpenter's Chalk Line To Establish Installation Layout Of Base Plate

3. Using the base plate on the POWER SIDE post as a guide, drill each anchor hole in the concrete approximately 4.72" deep using a rotary hammer drill and 0.79" concrete drill-bit. To ensure full holding power, do not ream the hole or allow the drill to wobble.

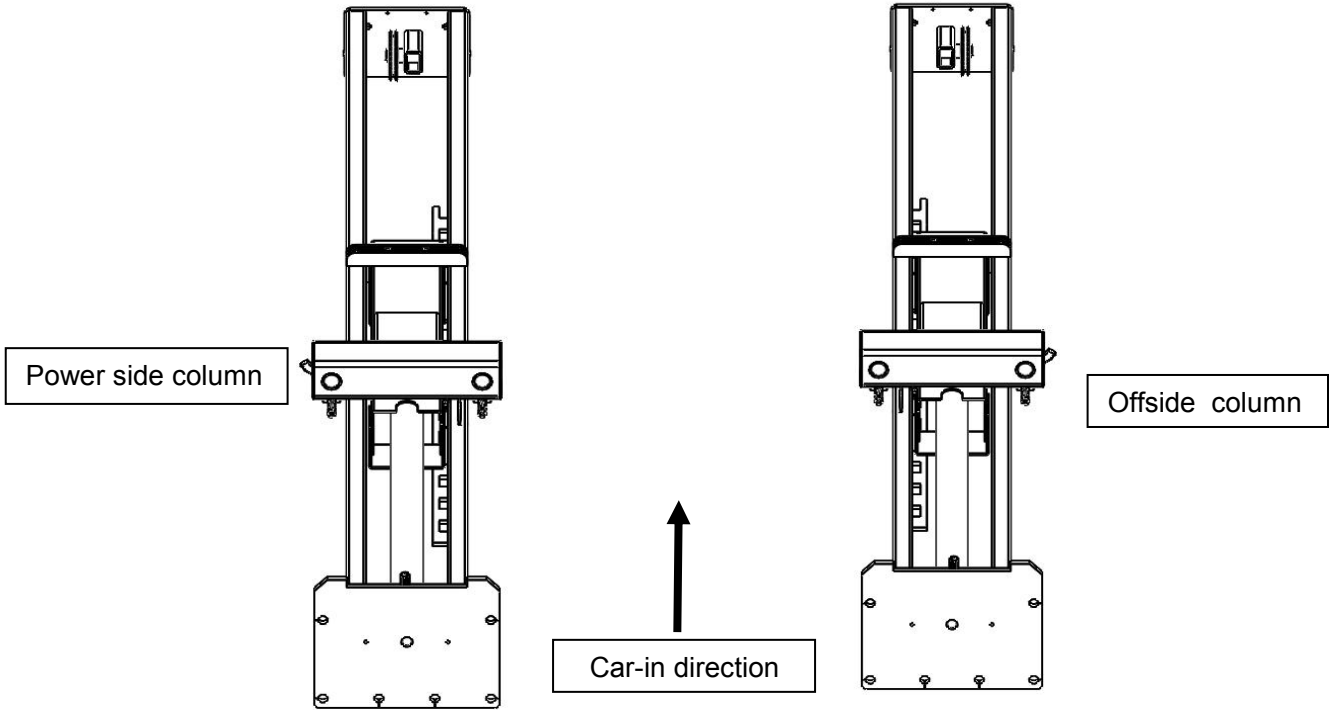
4. After drilling, remove dust thoroughly from each hole making certain that the posts remain aligned with the chalk line





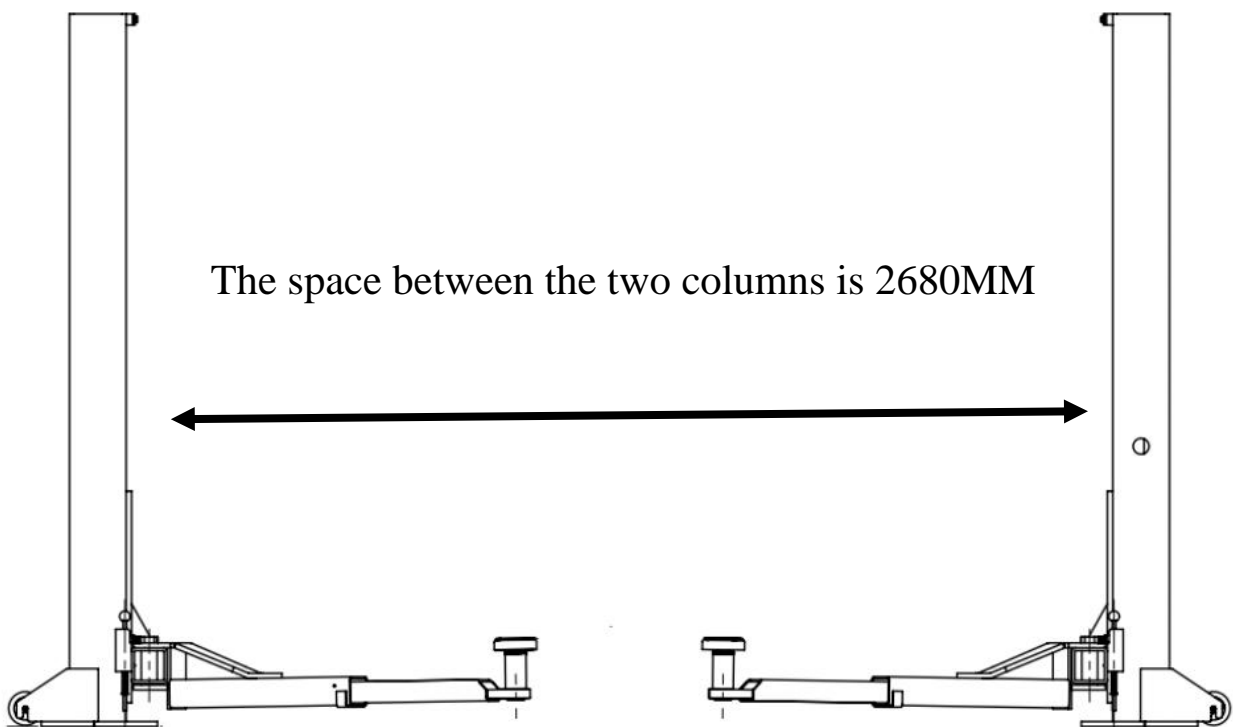
## Position Power Side Columns

Lay down two posts on the installation site parallel, position the Power side post according to the actual installation environment.



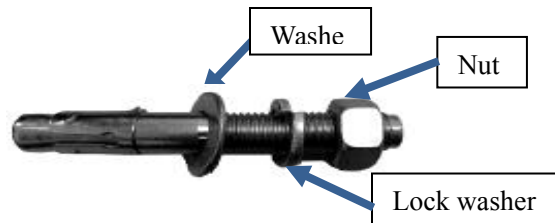
## Position Columns

Check the columns are plumb with level bar, and adjusting with the shims if the columns are not vertical.



## Fix Anchor Bolts

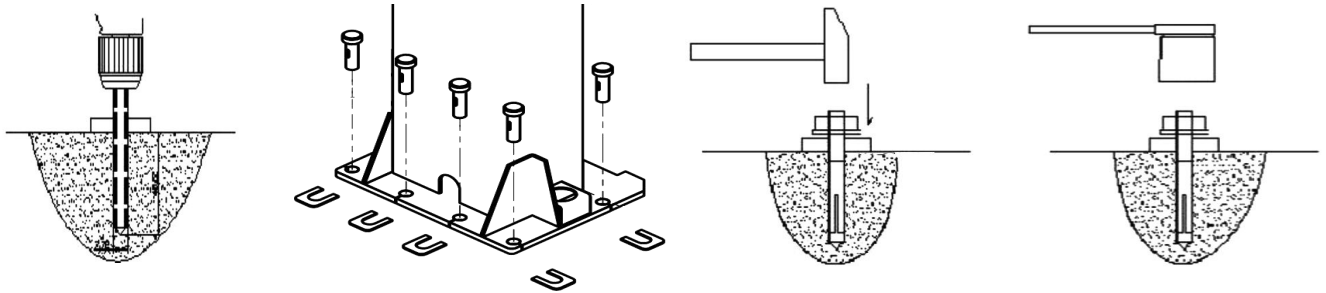
1. Prepare anchor bolts



2. If shimming is required, insert the shims as necessary under the base plate so that when the anchor bolts are tightened, the posts will be plumb

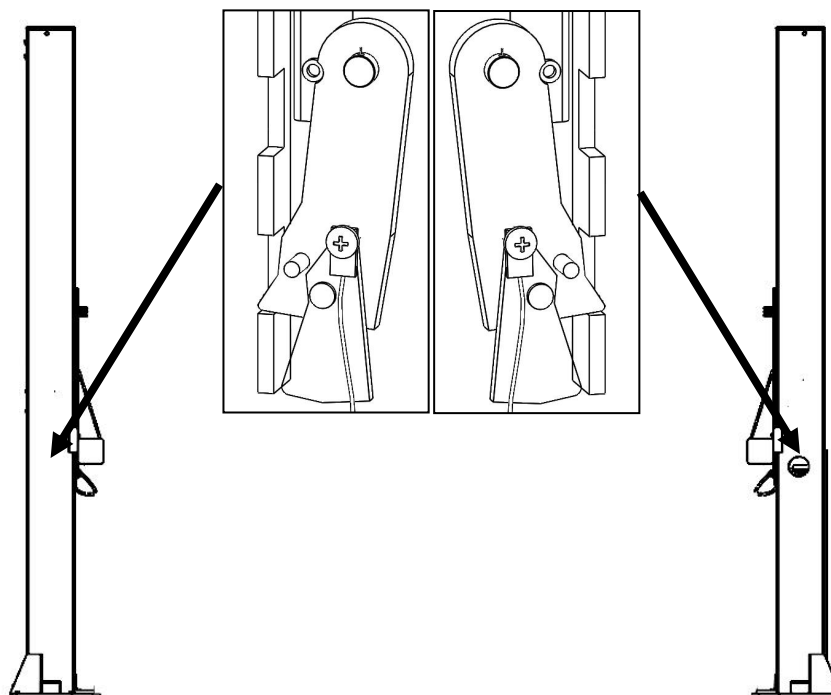
3. Assemble the washers and nuts on the anchors then tap into each hole with a hammer until the washer rests against the base plate. If shimming is required be sure that enough threads are left exposed

4. With the foot guards, shims and anchor bolts in place, tighten by securing the nut to the base then turning 3-5 full turns clockwise. DO NOT use an impact wrench for this procedure



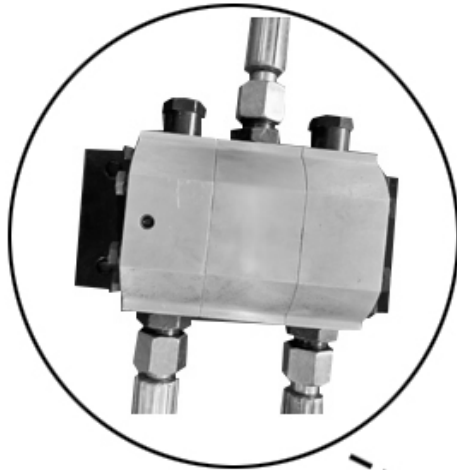
## Install Cable

1. Lift the carriages up by hand and make them be locked at the same level, you can tell by the sound of locking "click"

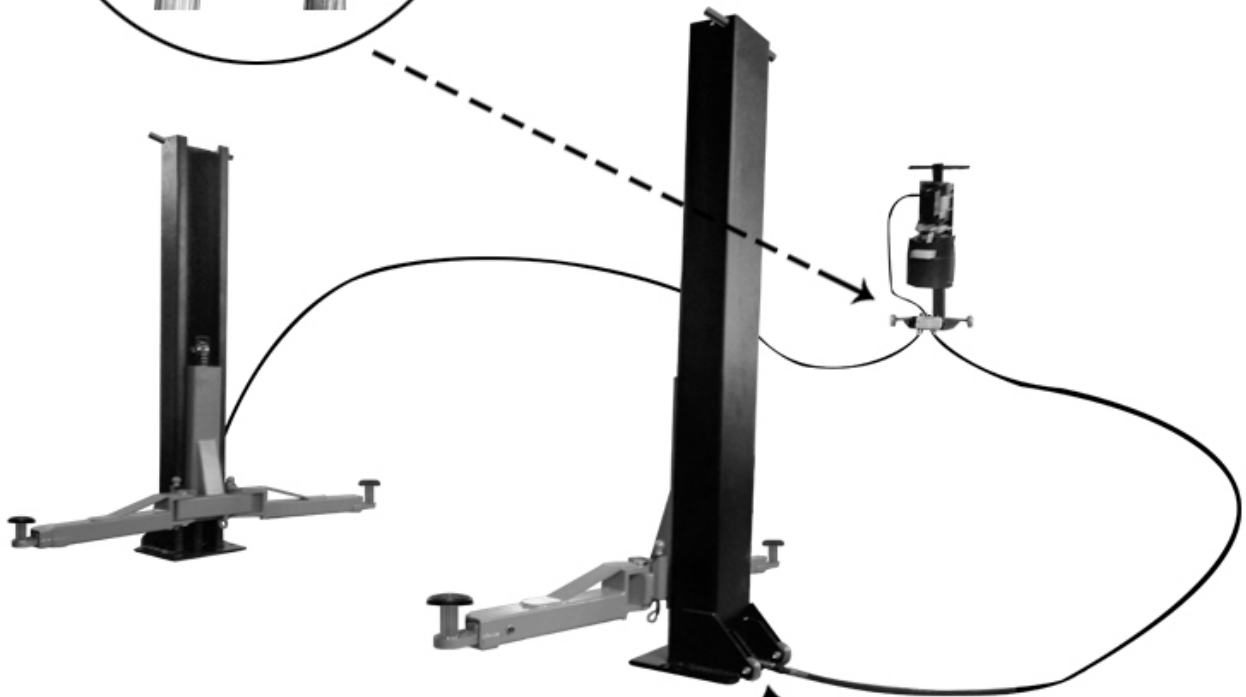




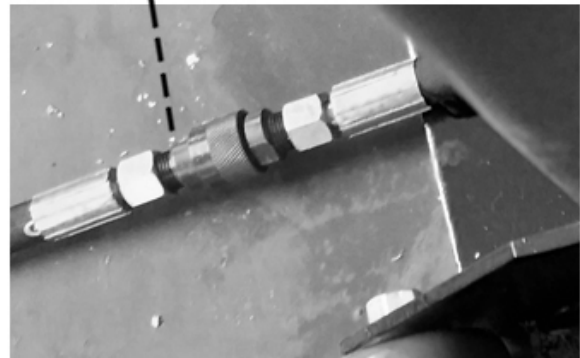
# Install Hydraulic Power Unit And Oil Hose Assembly



synchronous motor



Quick hydraulic connector

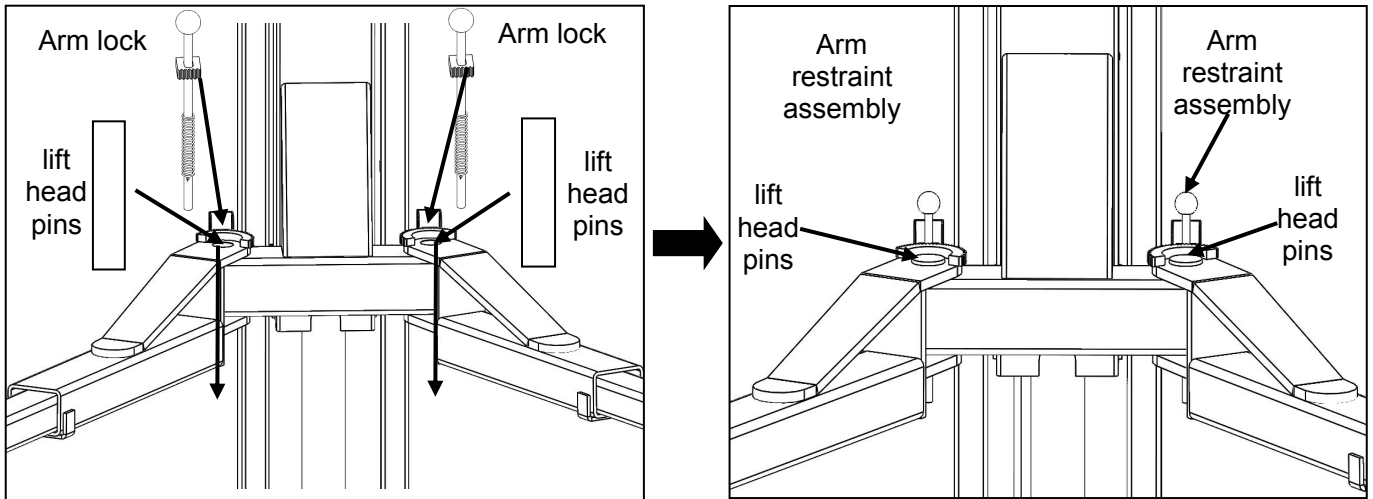


warning, when first time use this lift, please Firstly use short oil hose to connect the power unit and the balance valve, and other side of balance valve is connected with other 2\* 6 meters two oil hose. Fill hydraulic oil into oil tanks. start powerpack, Do not connect the quick coupling until the oil is coming out from the oil hose

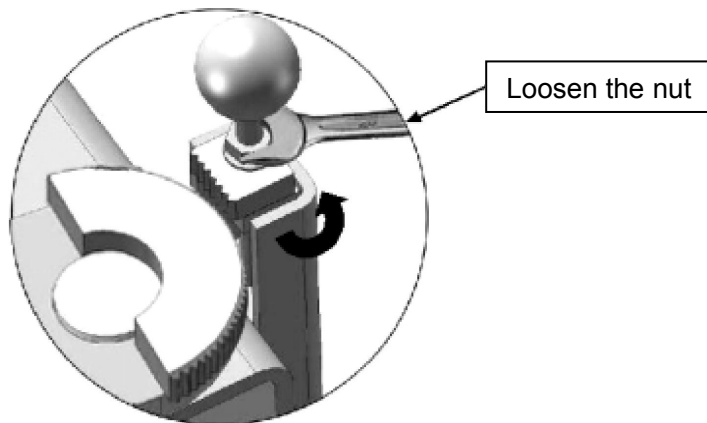


## Install Outer arm

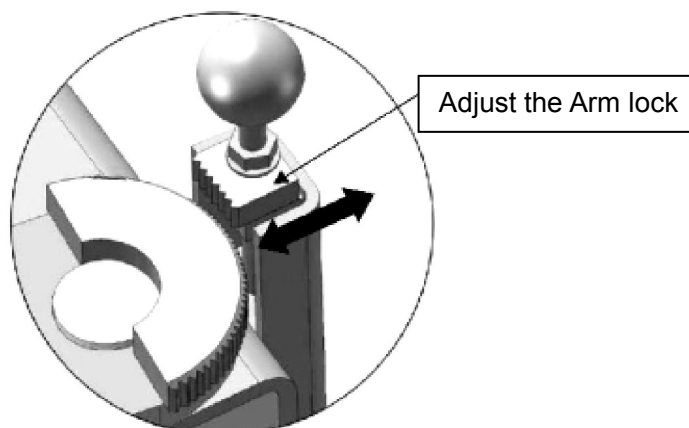
1. Place the appropriate lift arm assembly in the lift heads.
2. Install the lift head pins in to the lift head and through the holes in the arm assembly.
3. Each arm restraint gear can be oriented in a Left or Right configuration on the arms. Each arm and arm restraint gear must be positioned in the proper location in the lift head
4. Install Arm Lock assembly in to the lift
5. Install Arm lock pins in to the lift



6 pulling up arm lock rod to ensure it is fully unlocked , adjust in this state. Adjust nut as shown

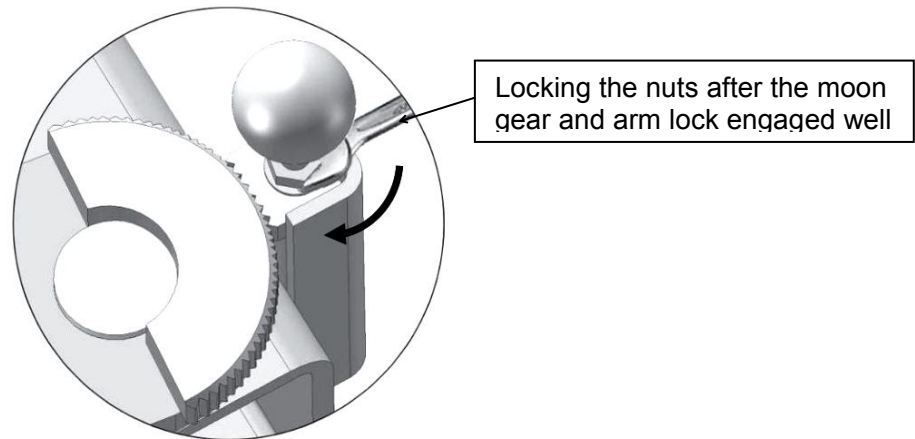


7. Adjust the arm lock. Follow the arrow direction.

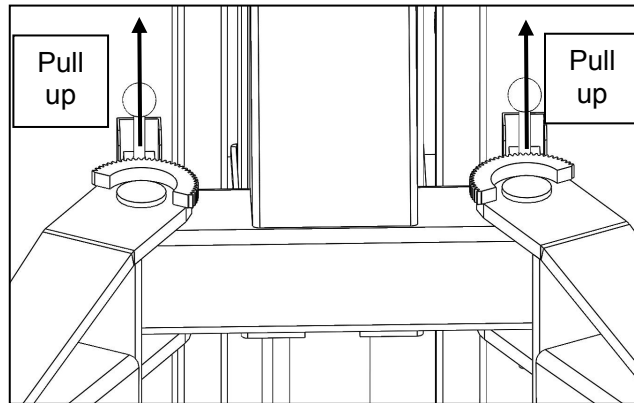




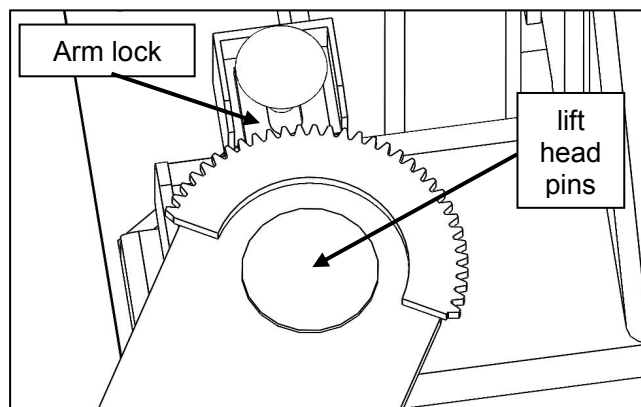
8. Adjust the teeth of arm lock assembly. Make it mesh with the gear on the lifting arm. Tighten the hex bolts on the arm lock assembly.



9. Verify the operation of the lift restraints by pulling up on of the arm restraint assembly. Pivot the arms back and forth and test the operation of the arm restraint pin in various positions.



10. Ensure that the arms do not move when a force of approximately 100 pounds or less is applied laterally to the fully extended arms.



**! DANGER**

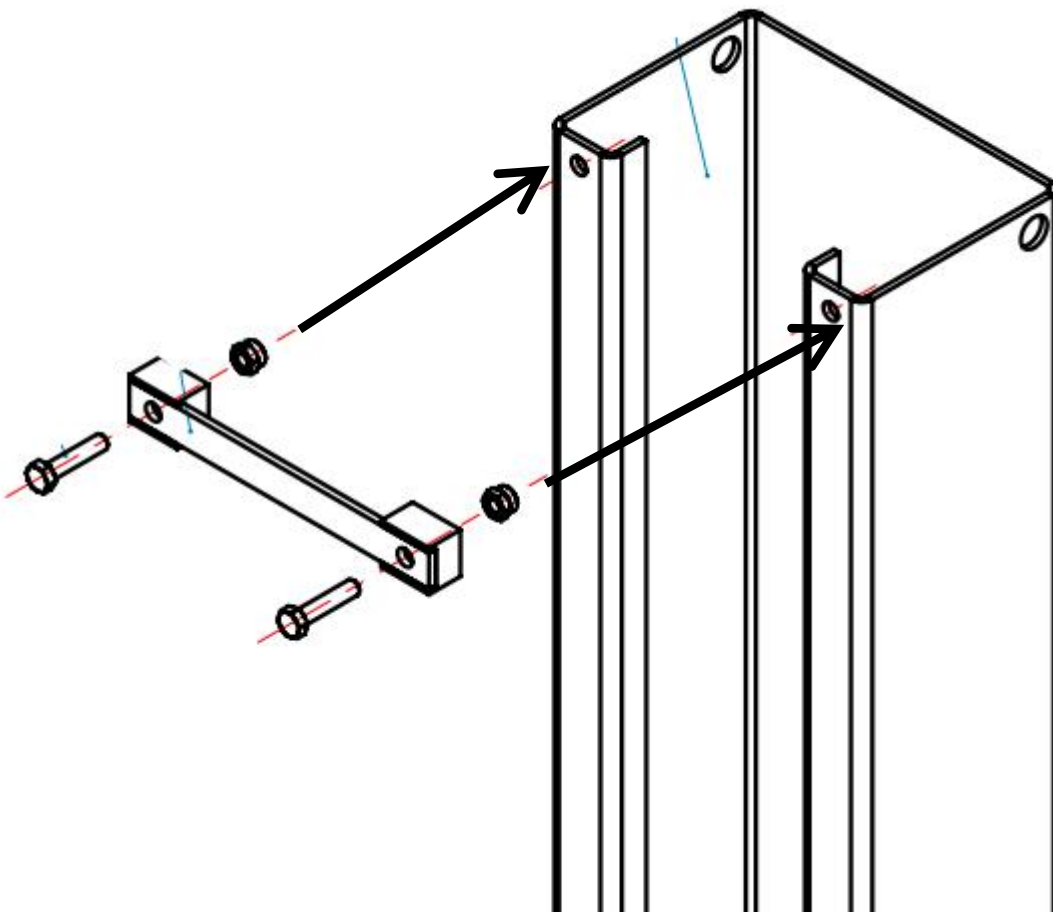
NOTE: EACH ARM RESTRAINT ASSEMBLY MUST BE INSPECTED BEFORE EACH AND EVERY TIME THE LIFT IS OPERATED. DO NOT OPERATE THE LIFT IF ANY OF THE FOUR ARM RESTRAINT SYSTEMS ARE NOT FUNCTIONING PROPERLY.



## CARRIAGE STOP BOLT INSTALLATION WARNING



**YOU MUST RE-INSTALL TOP CARRIAGE-STOP BOLT (SHOWN BELOW). 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 AND/OR DEATH AND/OR VOID 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.**



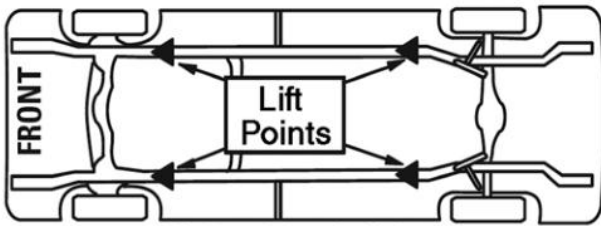
# LIFT OPERATION SAFETY (CONT'D)



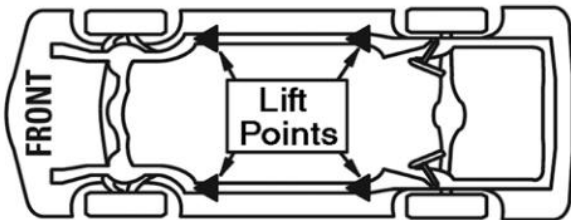
MANY SPECIALTY OR MODIFIED VEHICLES CAN- NOT BE RAISED ON A TWO-POST FRAME ENGAG- ING LIFT. CONTACT VEHICLE MANUFACTURER FOR RAISING OR JACKING DETAILS

•Position vehicle for proper weight distribution arms un- der vehicle to allow adapters to contact at the manufacturer's recommended pick up points.

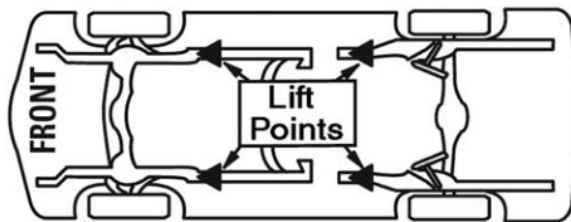
## TYPICAL LIFTING POINTS



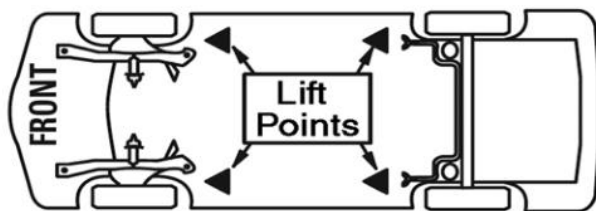
Pickup Truck / Van



Perimeter Frame



Stub Frame



Unitized Body

•Push the RAISE button or rotate the control switch on the power unit

**NOTE:**  
ALLOW (2) SECONDS BETWEEN MOTOR STARTS.  
FAILURE TO COMPLY MAY CAUSE MOTOR BURNOUT.

•Stop before making contact with vehicle. Check arm restraint pins for engagement. If required, slightly move arm to allow restraint gear and pawl to mesh. DO NOT hammer arm restraint pin down as this will damage the restraint gear teeth.

•Raise vehicle until tires clear the floor.

•Stop and check adapters for secure contact at vehicle manufacturer's recommended lift points.

• Continue to raise to desired height only if vehicle is secure on lift.

• DO NOT go near or under a raised vehicle if all four adapters are not in secure contact with vehicle at vehicle manufacturer's recommended lift points.

• Repeat entire loading and raising procedures if required.

• Lower lift onto safety locks.



# LIFT OPERATION SAFETY (CONT'D)



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, REFER TO INSTALLATION /OPERATION MANUAL FOR PROPER SAFETY

- DO NOT enter work area or go under vehicle if safety locks are not engaged.
- CLEAR AREA if vehicle is in danger of falling.
- DO NOT position yourself between a wall and the lift.  
If the vehicle falls in that direction, you may be severely injured or killed.
- Before attempting to lift pickup trucks or other truck frame vehicles, be sure that:
  - ◀ Vehicle frame is strong enough to support its weight and has not been weakened by modification or corrosion.
  - ◀ Vehicle individual axle weight does not exceed one-half lift capacity.
  - ◀ Adapters are in secure contact with frame at vehicle manufacturers recommended lift points.
  - ◀ Vehicle is stable on lift and the center of gravity is NOT off balance.
  - ◀ The overhead switch bar will contact the highest point on the vehicle.

## WHILE USING LIFT

Avoid excessive rocking of vehicle while on lift.

- Always use safety stands as needed or when removing or installing heavy components.



WHEN LOWERING THE LIFT PAY CAREFUL ATTENTION THAT ALL PERSONNEL AND OBJECTS ARE KEPT CLEAR. ALWAYS KEEP A VISUAL LINE OF SITE ON THE LIFT AT ALL TIMES. ALWAYS MAKE SURE THAT ALL LOCKS ARE DISENGAGED. IF ONE OF THE LOCKS INADVERTENTLY LOCKS ON DESCENT THE LIFT AND/OR VEHICLE MAY DISRUPT CAUSING PERSONAL INJURY OR DEATH.

1. Remove all tools or other objects from the lift area.
2. Raise lift off safety locks. Make sure you raise the lift by at least two inches to allow adequate clearance for the locks to clear.
3. Pull unlock ring
4. Push LOWERING valve handle to lower. Note: Both SAFETY LOCK release and LOWERING valve handles must be held down simultaneously to lower lift. Do not override self-closing lift controls.
5. Remain clear of lift when lowering vehicle. Observe pinch point warning decal instructions.
6. Remove adapters from under vehicle and swing arms to full drive-thru position before moving vehicle.
7. If lift is not operating properly, DO NOT use until adjustment or repairs are made by qualified lift service personnel.

## MAINTENANCE INSTRUCTIONS



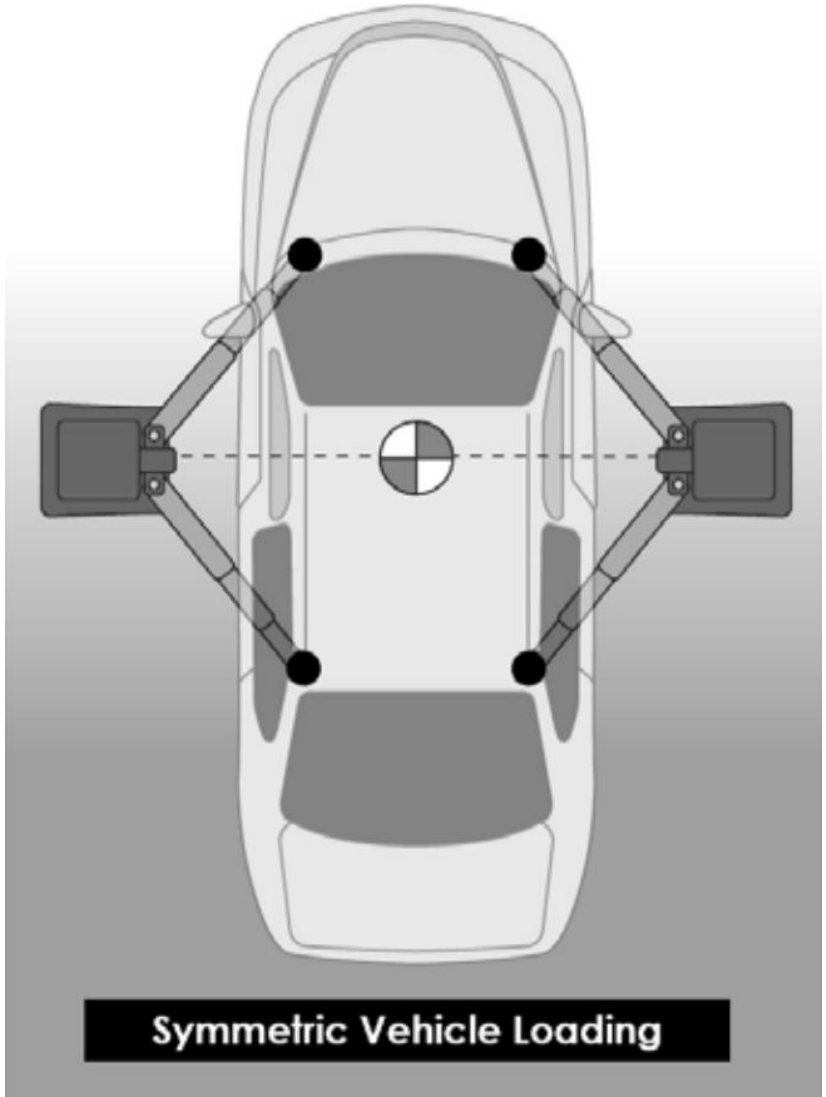
IF YOU ARE NOT COMPLETELY FAMILIAR WITH AUTOMOTIVE LIFT MAINTENANCE PROCEDURES; STOP AND CONTACT THE MANUFACTURER FOR INSTRUCTIONS. TO AVOID PERSONAL INJURY, PERMIT ONLY QUALIFIED PERSONNEL TO PERFORM MAINTENANCE ON THIS EQUIPMENT.

## TO LOWER THE LIFT



**! WARNING**

Make sure vehicle is neither front nor rear heavy and select the proper configuration for the vehicle to be lifted (symmetric/asymmetric) as shown below. Center of balance should be midway between adapters



- Always replace ALL FAULTY PARTS before lift is put back into operation.
- Daily: Make a visual inspection of ALL MOVING PARTS and check for excessive signs of wear.
- Daily: Check safety locks to ensure they are in good operating condition.
- Daily: Check cables and sheaves for wear. Replace worn parts as required with genuine parts.
- Daily: Inspect adapters for damage or excessive wear. Replace as required with genuine parts.
- Weekly: Lubricate all sheaves and rollers with general purpose oil.
- Weekly: Check all cable connections, bolts and pins to ensure proper mounting.
- Monthly: Check equalizer cable tension. Adjust per lift installation instructions.
- Monthly: Lubricate locking latch shafts. Push latch handle several times for oil to penetrate pivot points.
- Every 3 Months: Check anchor bolt torque. Anchors should be torqued to 90 ft/lbs.
- Semi-Annually: Check fluid level of lift power unit and refill if required per lift installation instructions.



## TO RAISE LIFT

- ◀ Read operating and safety manuals before using lift.
- ◀ Always lift a vehicle according to the manufacturers recommended lifting points.
- ◀ Position vehicle between posts.
- ◀ Adjust swing arms so that the vehicle is positioned with the center of gravity midway between pads.
- ◀ Use truck adapters as needed. Never exceed 9" of pad height.
- ◀ NEVER use lift pad assemblies without rubber slip over pads in place.
- ◀ Raise the vehicle by depressing button until the vehicle just lifts off the ground. Re-check to make sure the vehicle is secure and all locking pins are lock in place.
- ◀ Raise vehicle to desired height. Lower vehicle onto nearest safety,
- ◀ Always ensure safeties are engaged before any attempt is made to work on or near vehicle.

## TO LOWER THE LIFT

- ◀ First raise the lift clear to the safeties.
- ◀ Release safeties by pulling on the safety **Unlock Pull Ring**.
- ◀ Be sure tool trays, stands or personnel are cleared from under the vehicle.
- ◀ Lower vehicle by activating lowering handle on power unit.
- ◀ Before removing vehicle from lift; position lift arms and supports to provide an unobstructed exit.
- ◀ NEVER, drive over lift arms.

## REQUIRED MONTHLY MAINTENANCE

- ◀ Check all arm adjusting locks for proper operation.
- ◀ Check all cables connections, bolts and pins to ensure proper mounting and torque.
- ◀ Visually inspect safeties for proper operation.
- ◀ Lubricate posts with grease.
- ◀ Inspect all anchors bolts and retighten if necessary.
- ◀ Check all posts for squareness and plumb.
- ◀ Inspect all pivot arms pins making sure they are properly secure.
- ◀ Check equalizer cable tension, and adjust if necessary.
- ◀ If lift is equipped with overhead micro switch, check for proper operation.



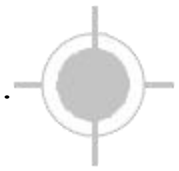
1. **WARNING:** If cement anchor bolts are loose or any component of the lift is found to be defective, **DO NOT USE THE LIFT.**
2. Never operate the lift with any person or equipment below the vehicle.
3. Never exceed the rated lift capacity.
4. Always ensure the safeties are engaged before any attempt 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's 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 NOT LIMITED TO:**

- ◀ Proper positioning of the vehicle on the lift arms. (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.
- ◀ Put pads or adapters in the right position under the contact points that have been recommended.
- ◀ 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.



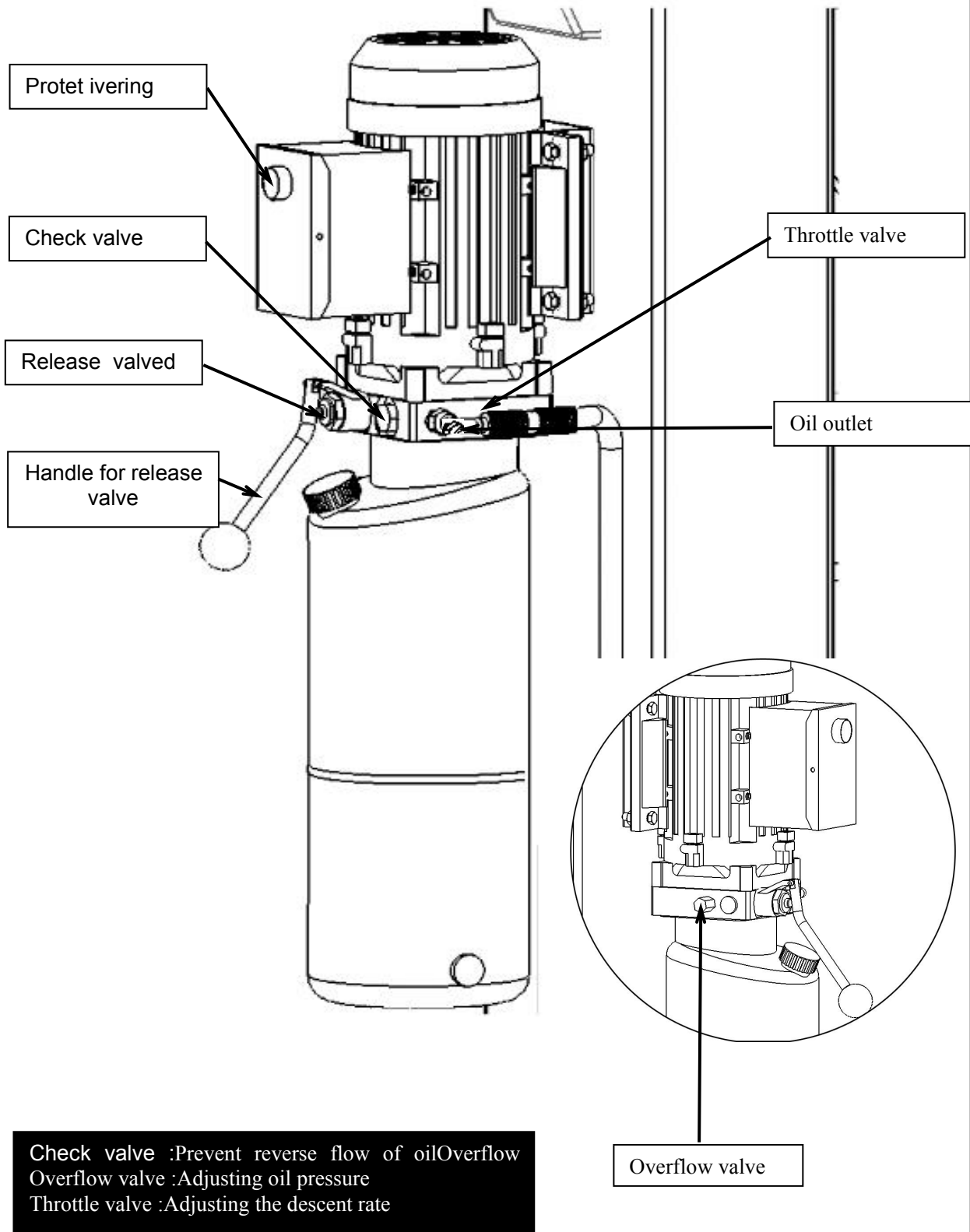


- DO NOT leave the controls while the lift is still in motion.
- DO NOT stand directly in front of the vehicle or in the bay when vehicle is being loaded or driven into position.
- DO NOT go near vehicle or attempt to work on the vehicle when being raised or lowered.
- REMAIN CLEAR of lift when raising 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 safeties 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



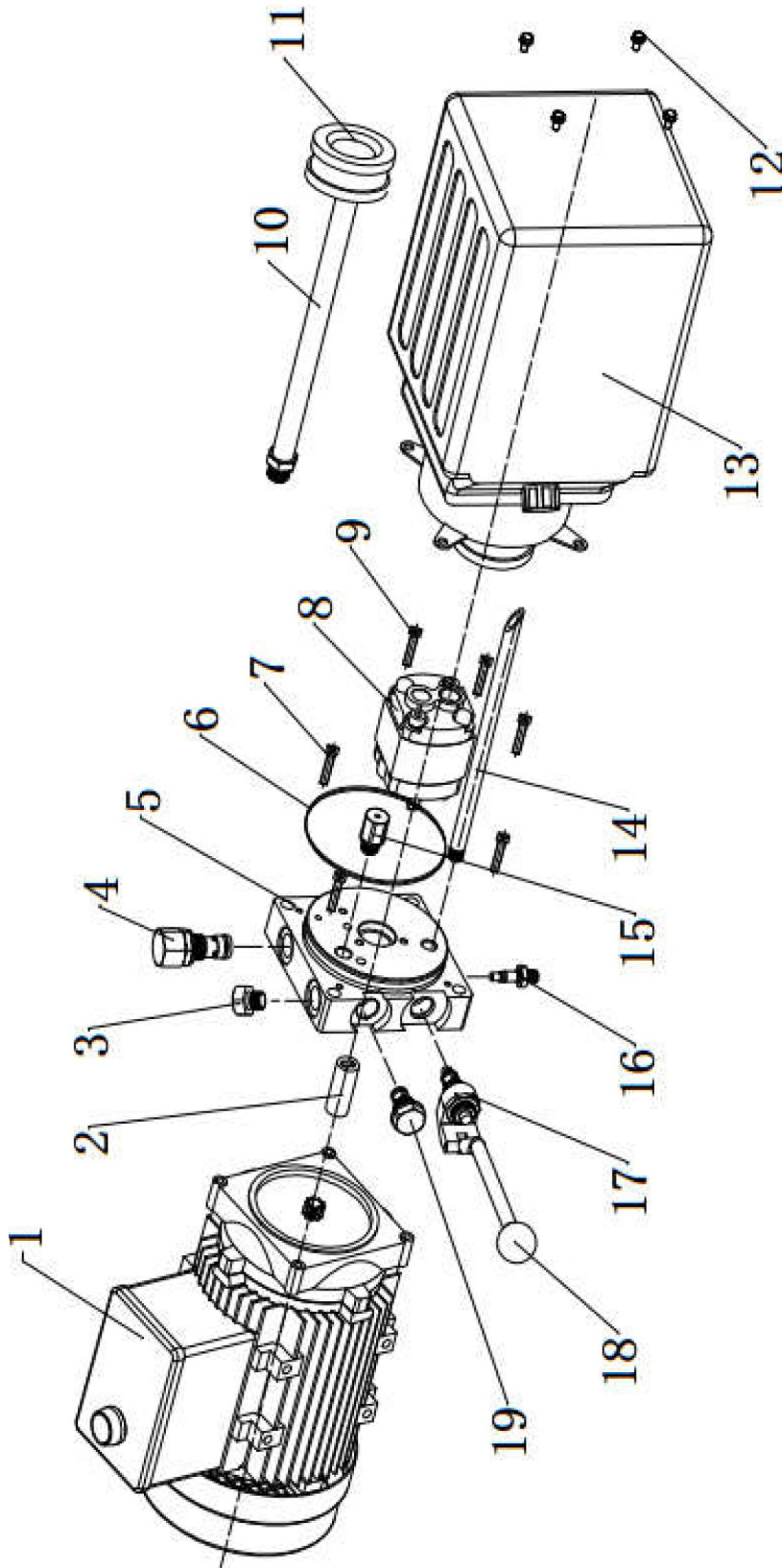


# Motor Function Analysis





## Motor drawing and part list



Nos.	Name	Quantity
1	Iron motor	1
2	Motor connecting shaft	1
3	Valve block blockage	1
4	Overflow valve	1
5	Valve Body	1
6	O-Ring	1
7	Valve Body Bolt	4
8	Gear Pump	1
9	Gear Pump Bolt	2
10	Oil Inlet Pipe	1

Nos.	Name	Quantity
11	Filter	1
12	Socket bolt	4
13	oil storage tank	1
14	Oil Return Pipe	1
15	Buffer Valve	1
16	Throttle valve	1
17	Release valve	1
18	Handle for release valve	1
19	Check valve	1
20		

