

**EUROPEAN USERS** 

400VAC 50Hz SUPPLY DETAILS ARE INCLUDED WITH ELECTRICAL CONTROL BOX. DISREGARD SUPPLY WIRING DETAILS IN THIS MANUAL **IMPORTANT SAFETY INFORMATION! SAVE THESE INSTRUCTIONS!** Read the entire contents of this manual **before** using this product. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death. Make sure all other operators also read this manual. Keep this manual near the product for future reference. **By proceeding** with installation and operation, you agree that you fully understand the contents of this manual and assume full responsibility for product use.

> Rev. D2 – July 2023 P/N 5900370

# INSTALLATION AND OPERATION MANUAL

12,000 / 15,000 / 18,000 lbs. – 5,443 / 6,804 / 8,165 kg. CAPACITY TWO-POST LIFTS



CE

ORIGINAL INSTRUCTIONS IN ENGLISH LANGUAGE Keep this operation manual near the machine at all times. Make sure that <u>ALL USERS</u> read this manual.



1645 Lemonwood Dr. Santa Paula, CA. 93060, USA Toll Free 1-800-253-2363 Tel: 1-805-933-9970 www.bendpak.com

# TWO-POST SURFACE MOUNTED AUTO AND TRUCK LIFT

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

RECORD THE LIFT AND POWER UNIT INFORMATION WHICH IS LOCATED ON THE SERIAL NUMBER DATA PLATES ON BOTH THE LIFT AND ON THE POWER UNIT

Power Unit Model #				
Power Unit Date Of Mfg.				
Power Unit Serial #				
Max Operating Pressure				

XPR-12:	2060	psi,
XPR-15:	2350	psi
XPR-18:	2580	psi.

<b>BP</b> BendPak.	Santa Paula, CA USA www.bendpak.com		
MODEL NUMBER			
SERIAL NUMBER			
LIFT CAPACITY	DESCRIPTION		
	880-415VAC, 50-60 Hz, 3 Ph 208-440VAC, 50-60 Hz, 3 Ph		
	<b>CE @</b> [fil		

This information is required when calling for parts or warranty issues.

# **PRODUCT WARRANTY**

Our comprehensive product warranty means more than a commitment to you; it's also a commitment to the value of your new BendPak lift. For full warranty details and to register your new lift contact your nearest BendPak dealer or visit http://www.bendpak.com/support/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 BendPak 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. BendPak Ranger reserves the right to change specifications without incurring any obligation for equipment previously or subsequently sold. Not responsible for typographical errors.

**California Proposition 65**. This product can expose you to chemicals including styrene and vinyl chloride which are on the list of over 900 chemicals identified by the State of California to cause cancer, birth defects or reproductive harm. Always use this product in accordance with BendPak's instructions. For more information, visit **www.p65warnings.ca.gov.** 

## **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 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.



#### DEFINITIONS OF HAZARD LEVELS

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

DANGER

This symbol indicates: Immediate hazards which will result in severe personal injury or death.



This symbol indicates: Hazards or unsafe practices which could result in severe personal injury or death.



This symbol indicates: Hazards or unsafe practices which may result in minor personal injury, product or property damage.

### **OWNER'S RESPONSIBILITY**

To maintain the lift and user safety, it is the owner's responsibility 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 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**

#### **Receiving:**

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 BendPak responsible for collection of claims or replacement of lost or damaged materials.

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#### 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 Bendpak 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-(current edition), 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 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 BendPak 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. For additional copies or further information, contact:

BendPak Inc. / Ranger Products

1645 Lemonwood Dr. Santa Paula, CA. 93060 1-805-933-9970 www.bendpak.com

## 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. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses. 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. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE THIS MACHINE.

# INTRODUCTION

1. Carefully remove the crating and packing materials. **CAUTION!** Use care when cutting steel banding material as items may become loose and fall, causing injury.

2. Check the voltage, phase, and proper amperage requirements for the motor shown on the motor plate. Wiring **MUST** be performed by a licensed 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.

- Read and understand all instructions and all safety warnings before operating lift.
- Care must be taken as burns can occur from touching hot parts.
- 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.
- 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.
- 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.
- 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.
- Let equipment cool completely before putting away. Loop cord loosely around equipment when storing.
- To reduce the risk of fire, do not operate equipment near open containers of flammable liquids (gasoline).
- Adequate ventilation should be provided when working on operating internal combustion engines.
- Keep hair, loose clothing, fingers, and all parts of body away from moving parts. Keep feet clear of lift when lowering. Avoid pinch points.
- 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.





- BendPak requires all operators to read and be familiar with ANSI/ALI ALIS Safety Requirements for Installation and Service of Automotive Lifts.
- ALWAYS WEAR SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses.
- Consider work environment. Keep work area clean. Cluttered work areas invite injuries. Keep areas well lit.
- 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.
- Only trained operators should operate this lift. All nontrained personnel should be kept away from the work area. Never let non-trained personnel come in contact with, or operate lift.
- DO NOT override self-closing lift controls.
- Clear area if vehicle is in danger of falling.
- ALWAYS make sure the safeties are engaged before attempting to work on or near a vehicle.



 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.

- 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.
- 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.
- NEVER remove safety related components from the lift. Do not use lift if safety related components are missing or damaged.
- STAY ALERT. Use common sense and watch what you are doing. Remember, SAFETY FIRST.

# SAVE THESE INSTRUCTIONS!

# **TOOLS REQUIRED**

- Rotary Hammer Drill or Similar
- ♦ 3/4 in. Masonry Bit
- Hammer
- 4 Foot Level
- Open-End Wrench Set: SAE/Metric
- Socket And Ratchet Set: SAE/Metric
- Hex-Key / Allen Wrench Set

- Large Crescent and Pipe Wrench
- Torque Wrench
- Crow Bar
- Chalk Line
- Medium Flat Screwdriver
- ♦ Tape Measure: 25 Foot Minimum
- Needle Nose Pliers

# **IMPORTANT NOTICE**

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 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

#### **STEP 1**

#### (Selecting Site)

Before installing your new lift, check the following.

1. **LIFT LOCATION**: Always use architects plans when available. Check layout dimension against floor plan requirements making sure that adequate space if 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. **OPERATING TEMPERATURE.** Operate lift only between temperatures of +41° to +104° F.

5. Lift is designed for **INDOOR INSTALLATION ONLY.** Outdoor use is prohibited.

STEP 2 (Floor Requirements)



This 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 required for safe and proper installation and operation. 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 or over expansion seams or on cracked or defective concrete.
- **DO NOT** install or use this lift on a second / elevated floor without first consulting building architect.

#### CONCRETE SPECIFICATIONS

LIFT MODEL CONCRETE REQUIREMENTS STEEL REINFORCED, 28 DAYS MIN. CURE TIME

12,000 lb. Models: 6.5 in. Min. Thickness	3,000 PSI
15,000 lb. Models: 8 in. Min. Thickness	3,000 PSI
18,000 lb. Models: 8 in. Min. Thickness	3,000 PSI



All models MUST only be installed on steel reinforced concrete with a 3,000 PSI minimum compressive strength, conforming to the minimum requirements shown above. New concrete must be adequately cured for at least 28 days minimum.

## **IMPORTANT NOTE:**

BendPak lifts are supplied with installation instructions and concrete fasteners meeting the criteria as prescribed by the American National Standard "Automotive Lifts - Safety Requirements for Construction, Testing, and Validation" ANSI/ALI ALCTV-(current edition). Lift buyers should contact qualified persons regarding 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).

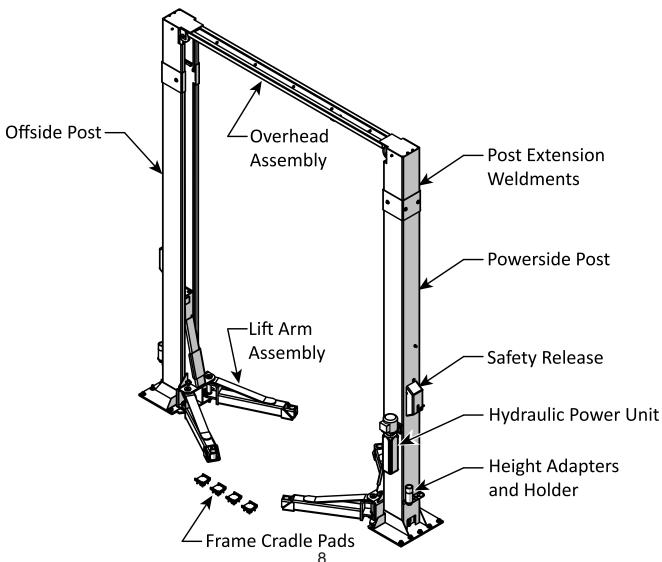
# **DANGER**

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 Forklift, Shop Crane, or some other heavy lifting device.

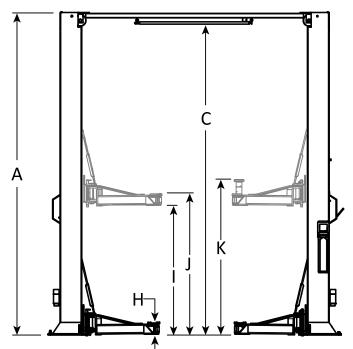
### **PARTS INVENTORY**

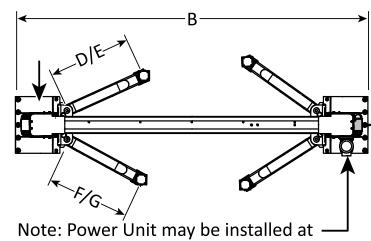
Be sure to take a complete inventory of parts prior to beginning installation.

Description		
Overhead Assembly	1	
Lift Arm Assemblies	4	
Height Adapters (Packed in Part Box)	4	
Frame Cradle Pads		
Offside Post	1	
Powerside Post	1	
Post Extension Weldments (-192 Models ONLY)	2	
Hydraulic Cylinder (Inside Lift Posts)	2	
Parts Box (Packing List Enclosed)	1	
Parts Bag (Packed in Part Box)	1	
Hydraulic Power Unit	1	



### **FLOOR PLAN**

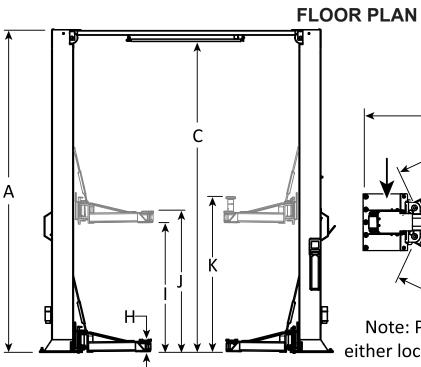




either location indicated by the arrows.

MODEL	XPR-12CL	XPR-12CL-192	XPR-12CL-LTA	XPR-12CL-LTA-192
Lifting Capacity	12,000 lbs. / 5443 kg.			
- Max Capacity/ Front Axle	6,000 lbs. / 2722 kg.			
- Max Capacity/ Rear Axle	6,000 lbs. / 2722 kg.	6,000 lbs. / 2722 kg.	6,000 lbs. / 2722 kg.	6,000 lbs./ 2722 kg.
A- Height Overall*:	170 in. / 4318 mm (*)	192.7 in. / 4895 mm	170 in. / 4318 mm (*)	192.7 in. / 4895 mm
B -Width Overall	155 in. / 3937 mm			
C- Floor to Overhead Switch:	165 in. / 4191 mm (*)	187.7 in. / 4768 mm	165 in. / 4191 mm (*)	187.7 in. / 4768 mm
D -Reach (Front Arm Min.):	32 in. / 813 mm	32 in. / 813 mm	35-1/2 in. / 902 mm	35-1/2 in. / 902 mm
E -Reach (Front Arm Max.):	60 in. / 1524 mm	60 in. / 1524 mm	71-1/2 in. / 1819 mm	71-1/2 in. / 1819 mm
F- Reach (Rear Arm Min.):	32 in. / 813 mm	32 in. / 813 mm	35-1/2 in. / 902 mm	35-1/2 in. / 902 mm
G- Reach (Rear Arm Max.):	60 in. / 1524 mm	60 in. / 1524 mm	71-1/2 in. / 1819 mm	71-1/2 in. / 1819 mm
H- Min. Pad Height:	5 in. / 127 mm			
I- Maximum Rise:	69 in. / 1753 mm			
J - Max Lift Height (Pad Only):	74 in. / 1880 mm			
K - Max Lift Height (6 in. Adapter):	80 in. / 2032 mm			
Standard Motor(**)	220VAC / 60Hz.1Ph.	220VAC / 60Hz.1Ph.	220VAC / 60Hz.1Ph.	220VAC / 60Hz.1Ph.
Time of Full Rise:	45 Seconds	45 Seconds	45 Seconds	45 Seconds
Max Load Per Arm:	3,000 lbs. / 1361 kg.			
Emission sound pressure at Operator Position < 70 dB(A)				
* An optional bolt-on top extension for the Posts raises the overhead bar an additional 24 in. Must be ordered from factory at time of order.				
** For CE compliant countries see errata sheet included with control panel.				
The design meterial and appointing are subject to change without notice				

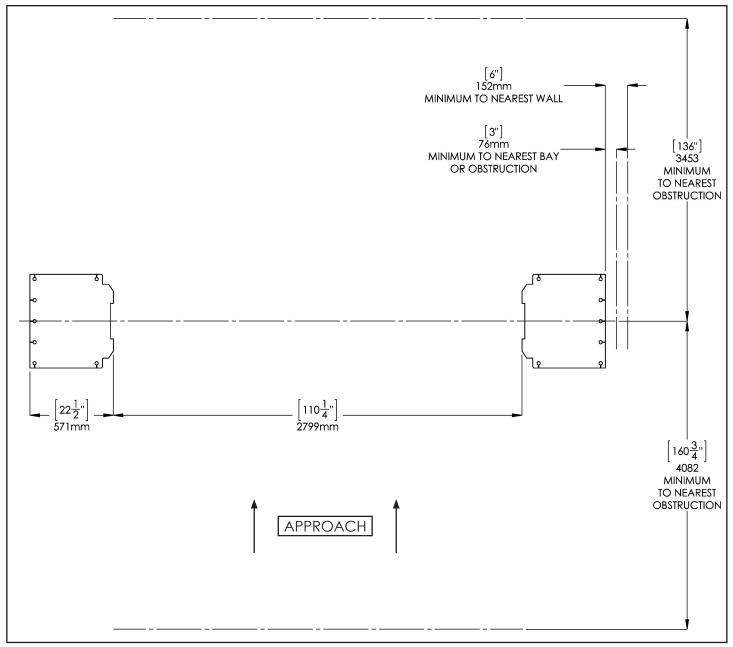
The design, material, and specifications are subject to change without notice.



either location indicated by the arrows.

MODEL	XPR-15CL	XPR-15CL-192	XPR-18CL	XPR-18CL-192
Lifting Capacity	15,000 lbs. / 6804 kg.	15,000 lbs. / 6804 kg.	18,000 lbs. / 8165 kg.	18,000 lbs. / 8165 kg.
Max Capacity/ Front Axle	7,500 lbs. / 3402 kg.	7,500 lbs. / 3402 kg.	9,000 lbs. / 4082 kg.	9,000 lbs. / 4082 kg.
Max Capacity/ Rear Axle	7,500 lbs. / 3402 kg.	7,500 lbs. / 3402 kg.	9,000 lbs. / 4082 kg.	9,000 lbs. / 4082 kg.
A- Height Overall*:	170 in. / 4318 mm (*)	192.7 in. / 4895 mm	170 in. / 4318 mm (*)	192.7 in. / 4895 mm
B -Width Overall	155 in. / 3937 mm			
C- Floor to Overhead Switch:	165 in. / 4191 mm (*)	187.7 in. / 4768 mm	165 in. / 4191 mm (*)	187.7 in. / 4768 mm
D -Reach (Front Arm Min.):	39 in. / 991 mm			
E -Reach (Front Arm Max.):	60 in. / 1524 mm			
F- Reach (Rear Arm Min.):	39 in. / 991 mm			
G- Reach (Rear Arm Max.):	60 in. / 1524 mm			
H- Min. Pad Height:	5 in. / 127 mm			
I- Maximum Rise:	69 in. / 1753 mm			
J - Max Lift Height (Pad Only):	74 in. / 1880 mm			
K - Max Lift Height (6 in. Adapter):	80 in. / 2032 mm			
Standard Motor(**)	220VAC / 60Hz.1Ph.	220VAC / 60Hz.1Ph.	220VAC / 60Hz.1Ph.	220VAC / 60Hz.1Ph.
Time of Full Rise:	45 Seconds	45 Seconds	45 Seconds	45 Seconds
Max Load Per Arm:	3,750 lbs. / 1701 kg.	3,750 lbs. / 1701 kg.	4,500 lbs. / 2041 kg.	4,500 lbs. / 2041 kg.
Emission sound pressure at Operator Position < 70 dB(A)				
* An optional bolt-on top extension for column raises the overhead bar an additional 24 in. Must be ordered from factory at time of order.				
** For CE compliant countries see errata sheet included with control panel.				
The design, material and specifications are subject to change without notice.				

# CLEARANCES XPR-12CL/15CL/18CL

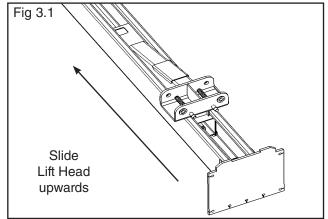


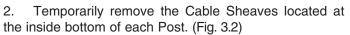
LIFT HEIGHT CLEARANCE NOTE: There must be a 1 in. MIN distance from top of Lift to nearest obstruction.

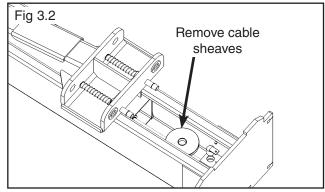
#### STEP 3

#### (Preparing the Posts) COMPLETE THE FOLLOWING PRIOR STANDING UP POSTS.

1. Slide the Lift Head up the Post to aid in Pulley (also sometimes called Cable Sheaves) removal and Equalizer Cable routing. (See Fig 3.1)

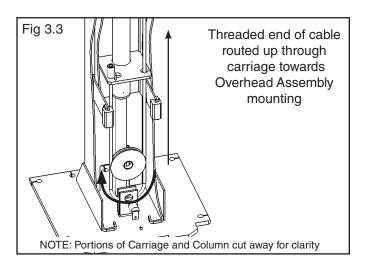


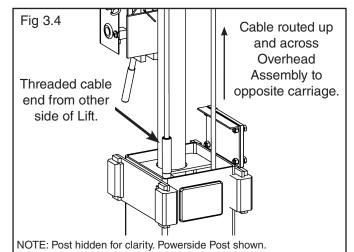




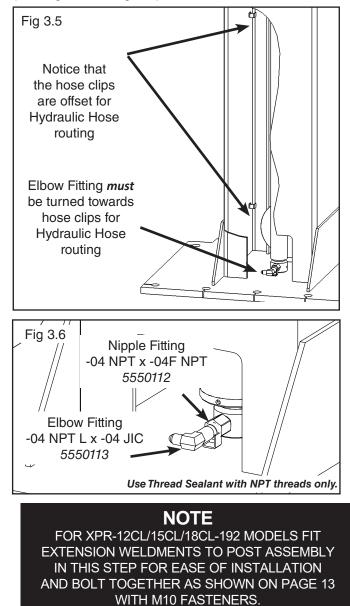
3. Route the Button end of the Cable around the bottom sheave and secure at the carriage lock plate located inside each Lift Head. Route Threaded End of Cable upwards through the bottom of the carriage (See Fig 3.8)

Leave excess cable coiled on top of the Lift Head until required later in the process (See Fig. 3.3 and Fig. 3.4).





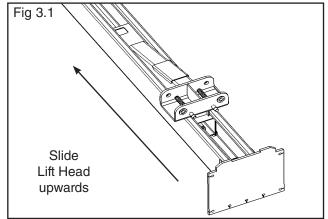
4. Install the Nipple and Elbow Cylinder Fittings in the Cylinder Ports. Pay attention when installing the Elbow Fittings to ensure that each Fitting points towards the side of the Post that the Hose Retainer Clips are located on. Use Thread Sealant on NPT Threads only. (See Fig 3.5 and Fig. 3.6)

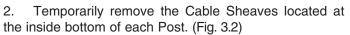


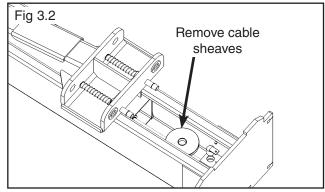
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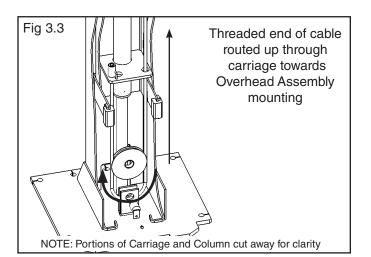


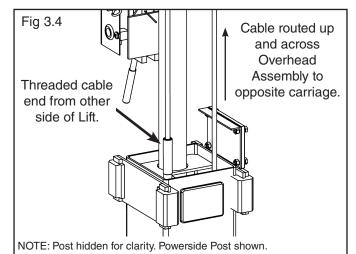




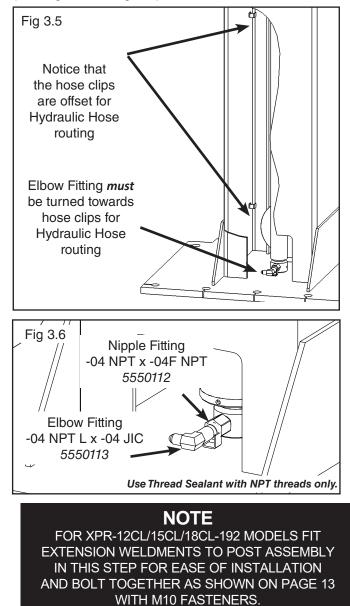
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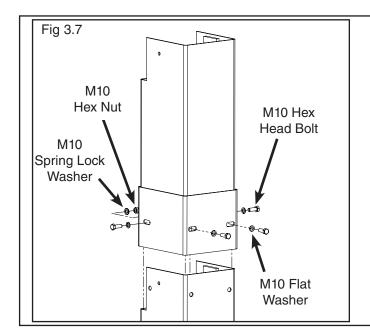
Leave excess cable coiled on top of the Lift Head until required later in the process (See Fig. 3.3 and Fig. 3.4).





4. Install the Nipple and Elbow Cylinder Fittings in the Cylinder Ports. Pay attention when installing the Elbow Fittings to ensure that each Fitting points towards the side of the Post that the Hose Retainer Clips are located on. Use Thread Sealant on NPT Threads only. (See Fig 3.5 and Fig. 3.6)



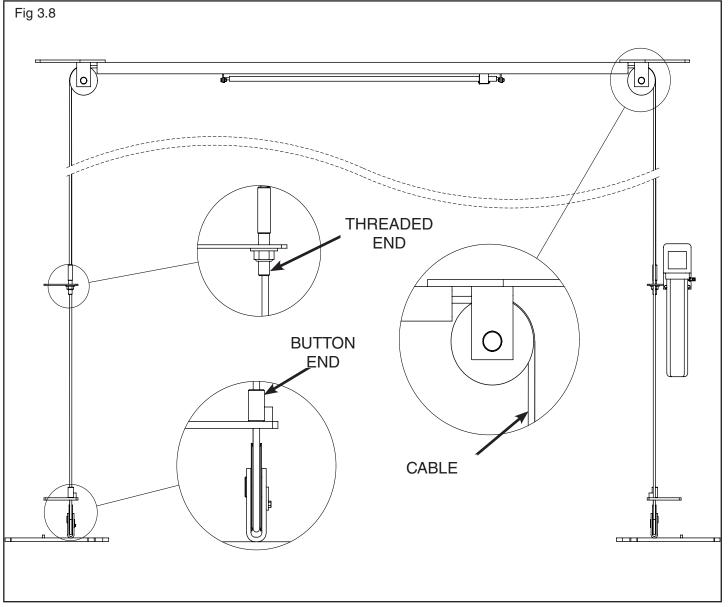


6. Route both Hoses in their respective Posts **PRIOR** to standing up the Posts. When routing the Hydraulic Hose through the Posts, make sure to route them through the Retaining Clips welded inside each Post. Make sure that the Hose is clear of any moving parts. It may be necessary to tie the Hose clear of obstructions by using nylon tie straps or wire. Refer to Step 10.



BE SURE TO ROUTE THE HYDRAULIC HOSES THROUGH THE RETAINING CLIPS WELDED INSIDE EACH POST.

# EQUALIZER CABLE ROUTING



# **IMPORTANT! PLEASE READ NOW!**



Hydraulic Fluid Contamination poses a serious issue for your Lift; contaminants such as water, dirt, or other debris can get into the Hydraulic Hoses and Fittings on the Lift, making your new Lift inoperable and unusable.

Your Lift is shipped with clean components; however, BendPak strongly recommends that you take secondary precautions and clean all Hydraulic Hoses and Fittings prior to making connections. It is better and less costly to take these extra steps now so that you do not need to take your Lift out of service later to fix issues that could have been prevented at the time of installation.

There are several ways to clean Hydraulic Hoses and Fittings:

- Compressed Air. Use an air compressor to blow out contaminants from each Hydraulic Hose and Fitting prior to installation. Clean, dry air is preferred. Wear ANSI-approved eye protection (safety glasses, goggles, or face shield) when using compressed air for cleaning. Never point an air hose nozzle at any part of your body or any other person.
- Fluid Flushing. As long as the Hydraulic Fluid is clean and compatible with the system fluid, you can flush Hoses and Fittings to create turbulent flow and remove particulates. Always ensure that the fluid itself is contaminant-free.

#### Some additional steps that will help keep the Hydraulic Fluid clean:

- Remove old thread seal tape. Some ports on the Hydraulic Cylinders are shipped with temporary plugs secured with thread seal tape, so make sure to thoroughly remove any leftover thread seal tape that may inadvertently enter the Hydraulic System.
- Use a liquid thread sealant only. Liquid thread sealant (Loctite<sup>™</sup> 5452 or similar) is recommended. Do not use thread seal tape on any fitting. Liquid thread sealant is recommended for NPT connections, fine for JIC connections, but not necessary for O-ring (ORB) connections.
- Always use clean equipment. If you use a dirty bucket or funnel to transfer the Hydraulic Fluid into the Hydraulic Fluid Reservoir, the contaminants will likely be introduced into the Fluid. When using cleaning rags, use a lint-free rag.
- Proper storage. Keep the Hydraulic Fluid sealed in its container until ready for use; store the Fluid in a clean, dry, and cool area.
- Cover the Hoses and Fittings. Before installation, do not leave the ends of the Fittings exposed; the same applies for the Hydraulic Hoses. As a general rule, keep the Hydraulic Hoses and Fittings capped and in a clean area until ready for use.
- Filter the new Hydraulic Fluid. Just because it is new does not mean it is clean. Use an offline filtration cart or kidney loop system to make sure the Hydraulic Fluid is clean before being transferred into the Hydraulic Fluid Reservoir (even using a heavy-duty nylon mesh screen is better than trusting what is left at the bottom of the barrel).
- Avoid mixing different types of Hydraulic Fluid. If Hydraulic Fluid needs to be replaced, make sure to flush the Hydraulic System of the old Hydraulic Fluid before you add the replacement Fluid; do not mix the two together.

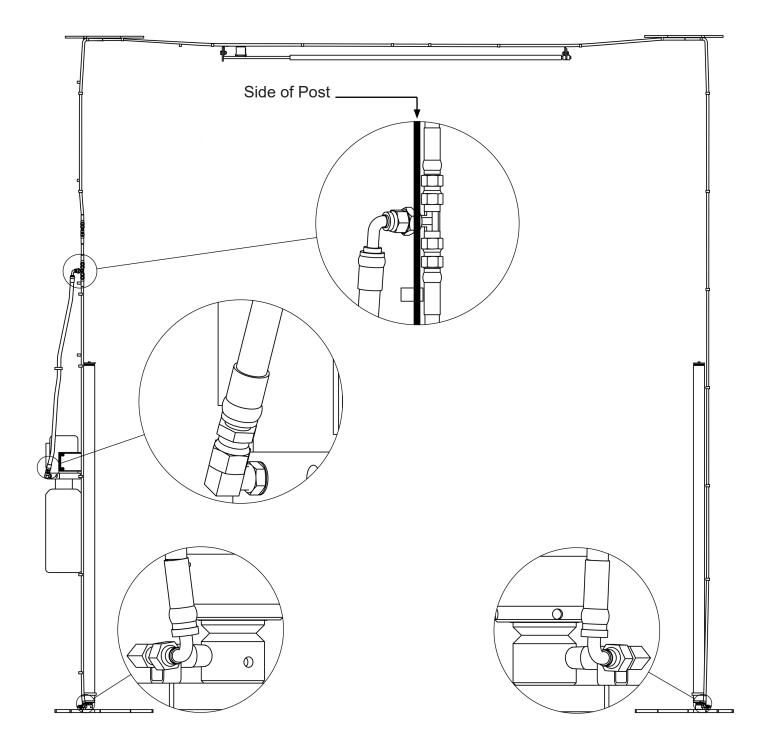
# HYDRAULIC SYSTEM WARNINGS

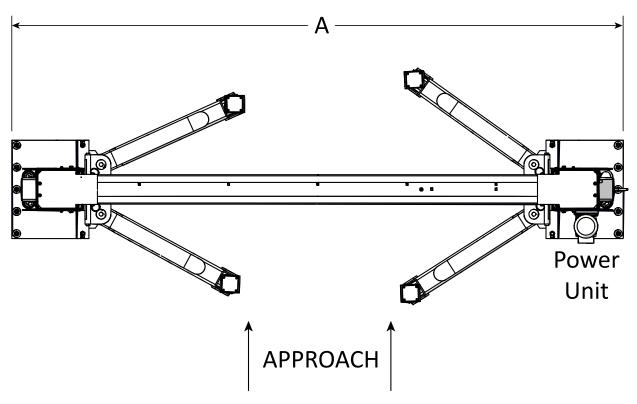


Before applying power to the Hydraulic System note the following Warnings:

- **WARNING!** Failure to observe these warnings can result in serious personal injury including, in rare cases, death.
- **WARNING!** The Hydraulic hoses and connections must be inspected before any attempt to raise a Vehicle is made.
- WARNING! Verify all Hydraulic Hose connections and fittings, including unused auxiliary port plugs on the Power Unit, the Flow Divider, the Cylinders and anywhere else in the Hydraulic System are tightened.
- WARNING! The Power Unit is a Hydraulic Pump capable of developing pressures in excess of 5,000 psi (345 BAR). A pressure relief valve is used to set the pressure at the desired level. Tampering with, adjusting, modifying, or removing the relief valve is extremely dangerous and is not permitted. Only trained Hydraulics technicians should adjust the relief valve, using calibrated hydraulic pressure gauges to assure the proper pressure setting is achieved.
- WARNING! Changes to the output pressure may render the power unit incompatible with pressure limitations of other components in the hydraulic circuit. This may cause catastrophic failure of those components, and could result in property damage, serious personal injury, or death.
- **WARNING!** The Hydraulic System can contain high pressure which, if suddenly released, can cause serious injury or death.
- **WARNING!** Do not attempt to connect or disconnect Hydraulic Hoses while the equipment is loaded or while a Vehicle is on the Lift, or the Hydraulic System is under pressure.
- **WARNING!!** Keep bare hands away from Hydraulic Fluid; always wear gloves when handling Hydraulic Fluid, Cylinders or Hydraulic Hoses.
- **WARNING!** When handling Hydraulic Fluid, always observe the safety instructions from the manufacturer.
- **WARNING!** Always promptly clean any Hydraulic Fluid spills. If a leak is the source of the spill, lockout the Lift to prevent use until the Hydraulic System is repaired.

# HOSE ROUTING





Model	Α	Capacity
XPR-12CL	155 in. / 3937 mm	12,000 lbs.
XPR-15CL	155 in. / 3937 mm	15,000 lbs.
XPR-18CL	155 in. / 3937 mm	18,000 lbs.

STEP 4

(Site Layout)

1. Decide which side of the Lift will be the approach side.

2. Determine where the Power Unit will be located. The POWER SIDE Post has the Power Unit Mounting Bracket attached to the side.

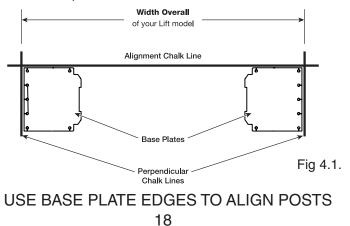
3. Use the chart on page 13 to determine which Lift width layout you would like to use.

line to layout an alignment line for the Post locations. Keep all dimensions square within 1/8 in. (3mm) or Lift malfunctions can occur. (See Fig 4.1)

5. After the Post locations are properly marked, use chalk or crayon to make an outline of the Posts on the floor at each Post location using the Post Base Plates as a template.

6. **CHECK ALL DIMENSIONS TWICE** and make sure that the layout is perfectly square.

4. Once a location is determined, use a carpenters chalk



## STEP 5

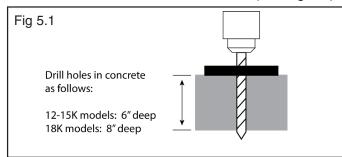
(Installing The POWERSIDE Post)

#### NOTE:

BENDPAK LIFTS ARE SUPPLIED WITH INSTALLATION INSTRUCTIONS AND CONCRETE FASTENERS MEETING THE CRITERIA AS PRESCRIBED BY THE CURRENT VERSION OF THE AMERICAN NATIONAL STANDARD "AUTOMOTIVE LIFTS - SAFETY REQUIRE-MENTS FOR CONSTRUCTION, TESTING, AND VALIDATION" ANSI/ALI ALCTV. LIFT BUYERS SHOULD CONTACT QUALIFIED PERSONS REGARDING 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).

1. **BEFORE PROCEEDING**, double check the measurements and verify that the bases of each Post are aligned with the chalk lines.

2. Using the Base Plate on the POWERSIDE Post as a guide, drill each anchor hole using a rotary hammer drill and 3/4 in. concrete drill-bit. To assure full holding power, do not ream the hole or allow the drill to wobble. (See Fig. 5.1)



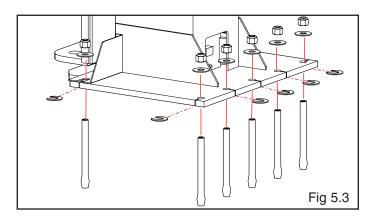
3. After drilling, remove dust thoroughly from each hole making certain that the Post remains aligned with the chalk line.

4. 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, make sure to leave enough threads exposed. (See Fig. 5.2)



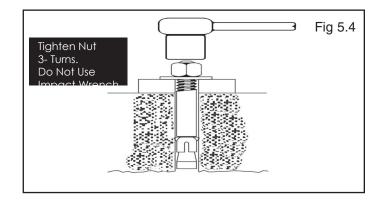
5. Insert the shims as necessary under the Base Plate so that when the Anchor Bolts are tightened, the Posts will be plumb. (See Fig. 5.3)

6. With the 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. (See Fig. 5.4)

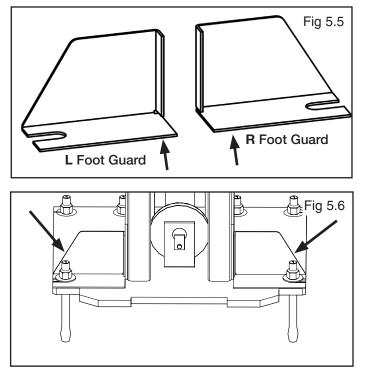


#### NOTE:

TO EASE INSTALLATION OF THE OVERHEAD ASSEMBLY, IT HELPS TO KEEP THE ANCHOR BOLTS LOOSE ON ONE OF THE POSTS UNTIL THE OVERHEAD ASSEMBLY IS MOUNTED.



7. Install the Left (5701662) and Right (5701661) Foot Guards to each Post. Position the Foot Guard beneath Washer and Nut of Anchor Bolt. (See Fig. 5.5 - 5.6).



### STEP 6

#### (Mounting The OFFSIDE Post)

1. Position the OFFSIDE Post at the designated chalk locations and secure to the floor following the same procedures as outlined in STEP FIVE; Items 1-6.

**NOTE:** TO EASE THE INSTALLATION OF THE OVERHEAD ASSEMBLY, IT HELPS TO KEEP THE ANCHOR BOLTS LOOSE ON ONE OF THE POSTS UNTIL THE OVERHEAD ASSEMBLY IS MOUNTED.

# STEP 7

(Mounting the Overhead Assembly)

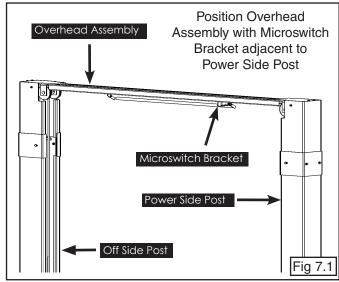
**NOTE:** IN ORDER TO ROUTE THE EQUALIZER CABLES THE SHEAVES MUST BE REMOVED.

1. Remove all of the Equalizer Pulleys (also called Cable Sheaves) in preparation of installing the Overhead Assembly.

2. Using an appropriate lifting device, raise the Overhead Assembly into position on top of the Posts.

3. Bolt the Overhead Assembly to the Posts using the 10 mm Hex Bolts, Nuts and Washers.

4. <u>YOU MUST</u> POSITION THE SWITCH ENCLOSURE ADJACENT POWERSIDE POST. (See Fig. 7.1)



5. Tighten the Overhead Assembly Bolts securely.

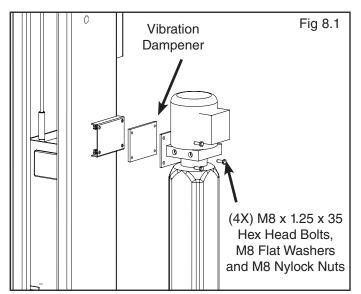


IF THE ANCHOR BOLTS WERE LOOSENED TO AID ON THE INSTALLATION OF THE TOP TROUGH, TIGHTEN ANCHOR BOLTS AS INDICATED IN STEP 5 ITEMS 4 – 7.

# STEP 8

(Mounting the Hydraulic Power Unit)

1. Remove Power unit from shipping material. Attach the Power Unit to the POWER SIDE Post. Install the Vibration Dampener between the Power Unit and the Power Unit Mounting Plate on the Power Side Post, using four M8 Hex Head Bolts and Nuts supplied. (See Fig 8.1)



2. Fill the Reservoir with 10 WT. HYDRAULIC OIL OR DEXRON ATF, approximately four gallons. Make sure the funnel used to fill the Hydraulic Fluid Reservoir is clean. Do not connect Power Unit Hydraulic Hose at this time.

3. The standard Power Unit for your Lift is **220 VAC**, **60Hz**, **single phase**.

All wiring must be performed by a licensed Electrician ONLY. SEE WIRING INSTRUCTIONS AFFIXED TO MOTOR FOR PROPER WIRING INSTRUCTIONS.



ALL WIRING MUST BE PERFORMED BY A LICENSED ELECTRICIAN.

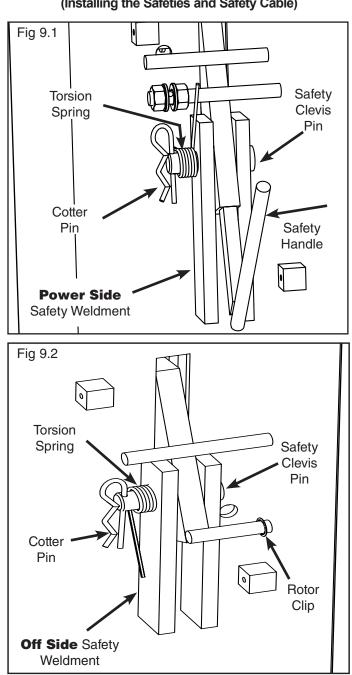


DO NOT PERFORM ANY MAINTENANCE OR INSTALLATION OF ANY COMPONENTS WITHOUT FIRST ENSURING THAT ELECTRICAL POWER HAS BEEN DISCONNECTED AT THE SOURCE OR PANEL AND CANNOT BE RE-ENERGIZED UNTIL ALL MAINTENANCE AND/OR INSTALLATION PROCEDURES ARE COMPLETED.

# 

DO NOT RUN POWER UNIT WITHOUT OIL. DAMAGE TO POWER UNIT 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 °to +104° F.

ALL ELECTRICAL WORK MUST BE ACCOMPLISHED BY A LICENSED ELECTRICIAN IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES. ANY IMPROPER ELECTRICAL INSTALLATION MAY DAMAGE THE POWER UNIT. RESULTING DAMAGE WILL NOT BE COVERED UNDER WARRANTY. MOTOR CAN NOT RUN ON 50HZ WITHOUT A PHYSICAL CHANGE IN MOTOR. USE A SEPARATE CIRCUIT BREAKER FOR EACH POWER UNIT. PROTECT EACH CIRCUIT WITH AN APPROPRIATE TIME DELAY FUSE OR CIRCUIT BREAKER USING A WIRE GAUGE APPROPRIATE FOR THE VOLTAGE, CURRENT DRAW AND LENGTH OF WIRE.



STEP 9 (Installing the Safeties and Safety Cable)

1. Install Safety Assemblies onto each respective Post. (See Figs 9.1 - 9.2). Only Powerside Safety Weldment has a Handle.

2. From the Off Side Post, insert the non-looped end of the safety cable through the hole located to the right of the Off Side Safety Weldment. (See Fig 9.3)

3. Route the Cable under the sheave and route it towards the Overhead Assembly. (See Fig 9.4)

4. Route the Cable through the Overhead Assembly's Safety Sheave(s) and across the Lift. (See Figs 9.5)

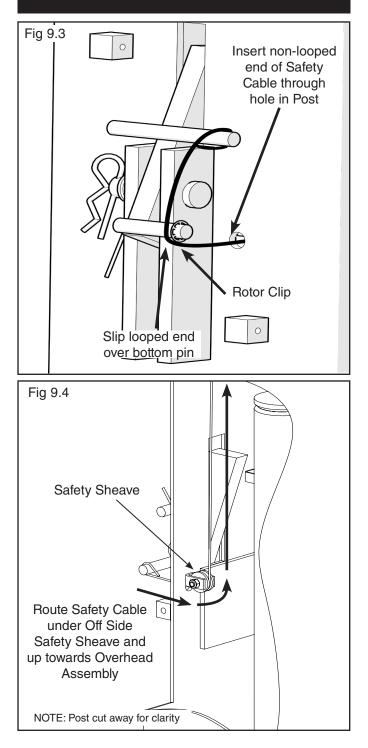
5. Route the Cable the same way on the Power Side going back down the Post.

6. Route the cable over the Top Welded Pin on the Safety Handle. Insert the cable end through the hole on the Threaded Pin. (See Fig 9.6)

7. Pull the slack out the safety cable and keep tension on the cable as Nuts are being tightened. Tighten jam Nuts on either side of the Cable keeping the Cable centered to the hole to secure it into place. (See Fig 9.6)

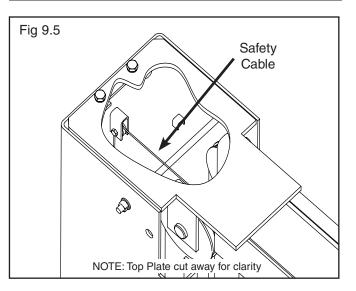


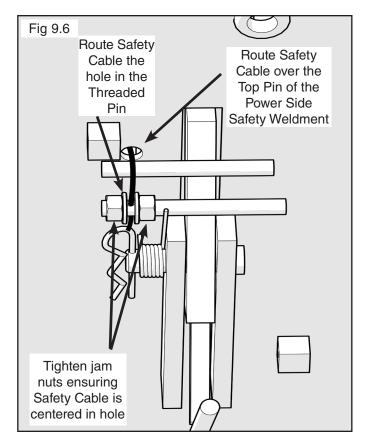
ENSURE THAT BOTH THE POWER SIDE & OFF SIDE SAFETIES ENGAGE PROPERLY PRIOR TO LIFT OPERATION.



NOTE:

MAKE SURE TO KEEP THE SAFETY CABLE CENTERED WHEN TIGHTENING JAM NUTS ON SAFETY.



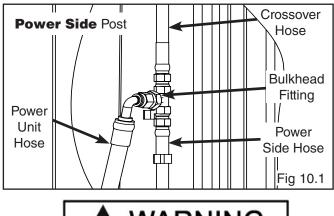


#### STEP 10 (Installing Hydraulic Hoses)

1. Install the Bulkhead Tee Fitting into the Power Side Post. The through hole is located approximately 90 inches from the floor on the back wall of the Power Side Post.

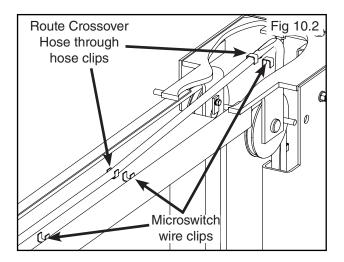
2. Connect the **Power Side** Cylinder Hose to the Tee Fitting. Be sure to route the Hose through the retainer clips inside the Posts.

3. Route the **Off Side** Cylinder Hose (Crossover Hose) up through the Post and across the Overhead Assembly, down the Post and connect it to the Bulkhead Tee Fitting. (See Fig 10.1)





WHEN ROUTING THE HYDRAULIC HOSE THROUGH THE POSTS, MAKE SURE TO ROUTE THROUGH THE HOSE CLIPS WELDED INSIDE EACH POST. MAKE SURE THAT THE HOSE IS CLEAR OF ANY MOVING PARTS. IT MAY BE NECESSARY TO TIE THE HOSE CLEAR BY USING NYLON TIE STRAPS OR WIRE.



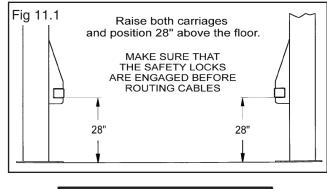
STEP 11 (Routing the Equalizer Cables)



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, SPACERS OR OTHER DEVICES TO "SHORTEN" THE EFFECTIVE CABLE LENGTH AS DAMAGE TO THE LIFT OR INJURY TO PERSONS MAY OCCUR.

Refer to illustrations on Page 11.

1. Raise and lock each Carriage approximately 28 in. above the ground. (See Fig. 11.1)





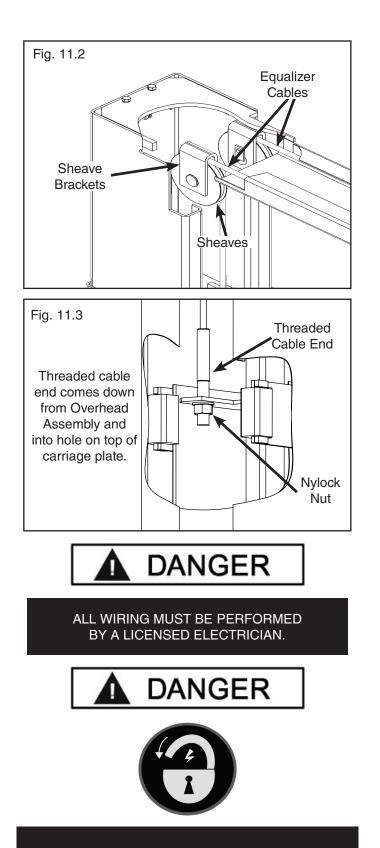
MAKE SURE THAT THE SAFETY LOCKS ON EACH POST ARE FULLY ENGAGED BEFORE ATTEMPTING TO ROUTE EQUALIZER CABLES AND/OR HOSES. CARRIAGES MUST BE EQUAL HEIGHT FROM THE FLOOR BEFORE PROCEEDING.

2. With the Carriages locked at 28 in. off the floor, route the Equalizer Cables up to the Top Trough.

3. Route the cables through the sheave brackets and reinstall the sheaves. (See Fig. 11.2)

Note: The sheaves should have been removed in Step 6.

4. Insert the threaded end of the cable through the hole on top of the carriage. Place M22 washer and M22 Nylock Nut on threaded cable end. Tighten Cable Nuts until taut, checking that both cables have equal tension. (See Fig 11.3)

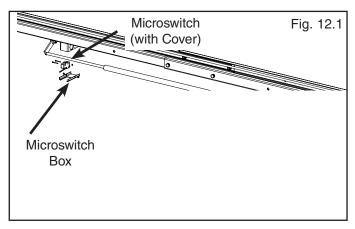


DO NOT PERFORM ANY MAINTENANCE OR INSTALLATION OF ANY COMPONENTS WITHOUT FIRST ENSURING THAT ELECTRICAL POWER HAS BEEN DISCONNECTED AT THE SOURCE OR AT POWER PANEL AND CANNOT BE RE-ENERGIZED UNTIL ALL MAINTENANCE AND/OR INSTALLATION PROCEDURES ARE COMPLETED. STEP 12 (Installing Overhead Micro Switch)



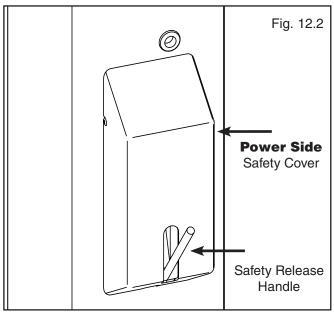
MICROSWITCH WIRE MUST BE RUN THROUGH CLIPS IN POST AND OVERHEAD ASSEMBLY. FAILURE TO DO SO CAN CAUSE DAMAGE TO LIFT OR TO VEHICLES.

1. Install the Overhead Microswitch as shown below. Be sure to keep wire clear of moving parts. (See Fig.12.1)

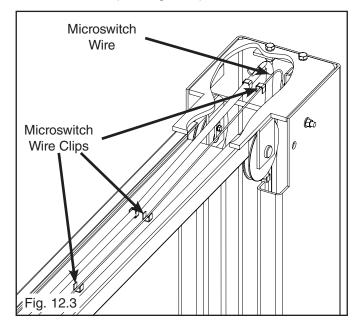


Note: Second Microswitch for 3 phase wired units ONLY. 3 phase Microswitch Kit can be found in the Power Unit shipping box.

2. Route Microswitch wire though the hole in Power Side Post with rubber grommet and position the wiring loosely along the side of the Safety Cover. (See Fig. 12.2)



3. Route wire up through Post and across Overhead Assembly through hole in Overhead Assembly into the Microswitch box. (See Fig. 12.3)

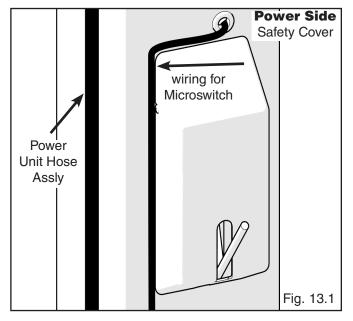


STEP 13 (Installing Power Unit Assembly and Power Side Safety Cover)



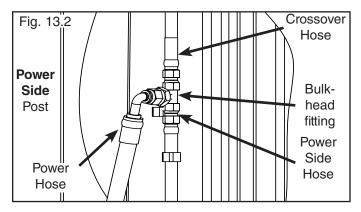
POWER UNIT HYDRAULIC HOSE MUST BE ROUTED THROUGH THE HOSE CLIPS IN POWER SIDE SAFETY COVER. FAILURE TO DO SO CAN RESULT IN PERSONAL INJURY OR DAMAGE TO THE LIFT.

1. With Power Side Safety Cover loosely positioned, route the Power Unit Hydraulic Hose along the side of the Power Side Safety Cover. (See Fig. 13.1)



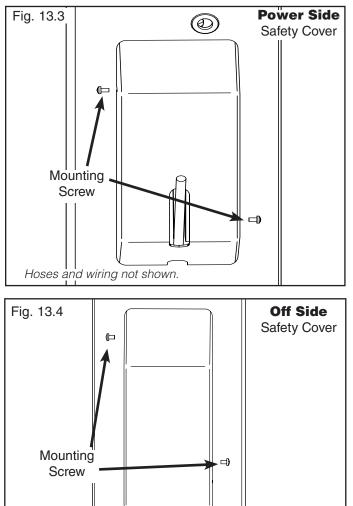
2. Install the  $90^{\circ}$  Fitting w/ O-ring into the Power Port of the Power Unit. Use teflon tape on the pipe fittings ONLY. Connect Power Unit Hose Assembly to the  $90^{\circ}$  w/O-ring fitting on Power Unit.

3. Connect other end of Power Unit Hydraulic Hose assembly to the Bulkhead Fitting. (See Fig. 13.2)



4. After Safeties have been adjusted and checked for proper operation, install and tighten Power Side Safety Cover and Off Side Safety Cover Mounting Screws.

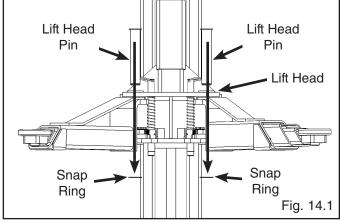
(See Fig. 13.3 and 13.4)



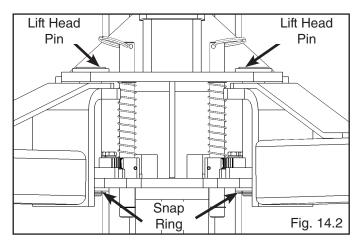
Hoses and wiring not shown.

#### STEP 14 (Installing the Lift Arms)

- 1. Place the Lift Arm Assemblies in the Lift Heads.
- 2. Install the Lift Head Pin into the Lift Head and through the holes in the Arm Assembly. (See Fig. 14.1)



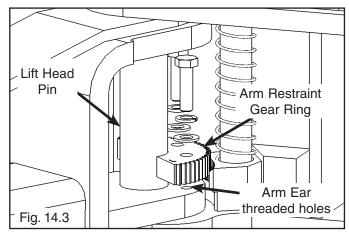
3. Install the Snap Ring into the groove in the Lift Head Pin on under side of the Lift Head. (See Fig. 14.2)



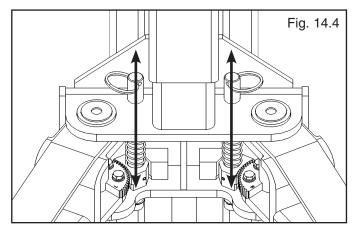


THE ARM RESTRAINT GEARS MUST BE POSITIONED PROPERLY. CONFIRMATION OF PROPER GEAR ENGAGEMENT MUST BE MADE PRIOR TO THE OPERATION OF THE LIFT. PERIODIC INSPECTION IS REQUIRED. FAILURE TO INSPECT THE ARM RESTRAINT GEARS ON ALL FOUR ARMS PROPERLY CAN RESULT IN DAMAGE TO THE VEHICLE OR INJURY AND/OR DEATH.

4. Place each Gear Ring against the Lift Head Pin and align the holes in the Gear Ring with the threaded holes in the Arm Ears. Ensure that the teeth on the Gear Ring mesh smoothly with the teeth on the gears of the Lift Head. (See Fig. 14.3)



5. Verify the operation of the Arm Restraints by pulling up on the key ring of the arm restraint pin. Pivot the arms back and forth and test the operation of the Arm Restraint Pin in various positions. (See Fig. 14.4)



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

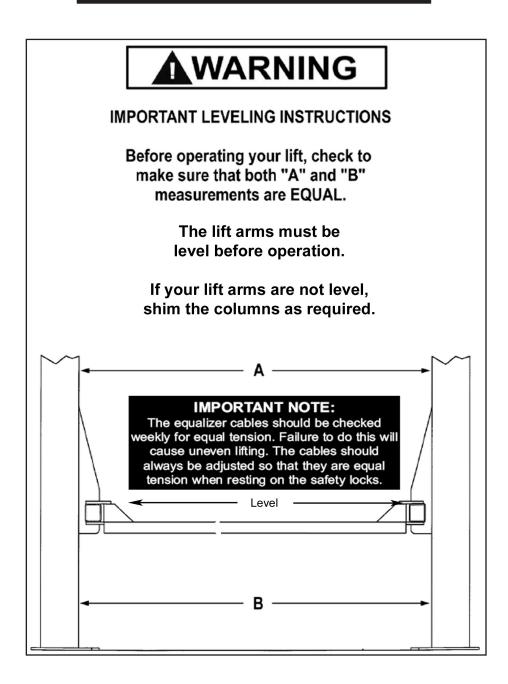


#### NOTE:

EACH ARM RESTRAINT ASSEMBLY MUST BE INSPECTED BEFORE <u>EACH AND EVERY TIME</u> THE LIFT IS OPERATED.

DO NOT OPERATE THE LIFT IF ANY OF THE FOUR ARM RESTRAINT SYSTEMS ARE NOT FUNCTIONING PROPERLY.

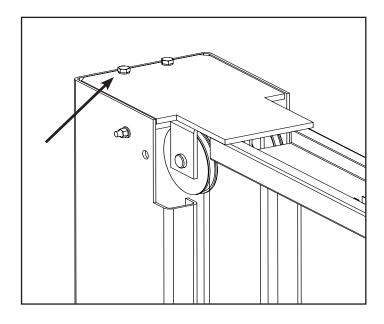
REPLACE ANY BROKEN COMPONENTS OR COMPONENTS WITH BROKEN TEETH ONLY WITH AUTHORIZED OR APPROVED REPLACEMENT PARTS.

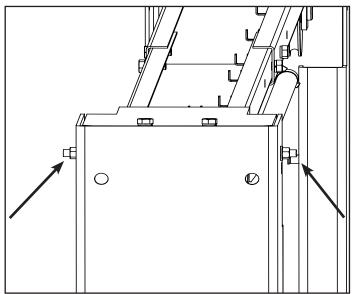


# **CARRIAGE STOP BOLT INSTALLATION**

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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.







DO NOT PERFORM ANY MAINTENANCE OR INSTALLATION OF ANY COMPONENTS WITHOUT 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.



# **IMPORTANT POWER-UNIT INSTALLATION NOTES**

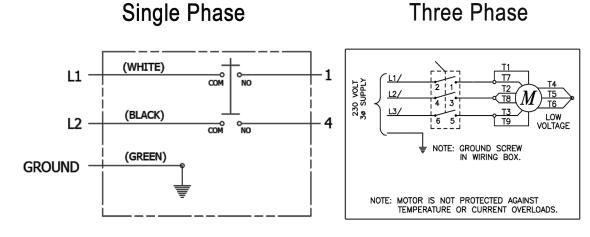
- ALL ELECTRICAL WORK IS TO BE ACCOMPLISHED BY A LICENSED ELECTRICIAN, in accordance with all national, and local electrical codes.
- The Power Unit requires an electrical disconnect and a thermal disconnect for operation. These components are not included with this Lift. The electrician is required to install these components. All electrical components should be UL-listed.
- DO NOT run the 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.
- 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.
- Use the appropriate wire gauge for the distance, voltage and current draw required for the specific Power Unit.

Installation and adjustment.

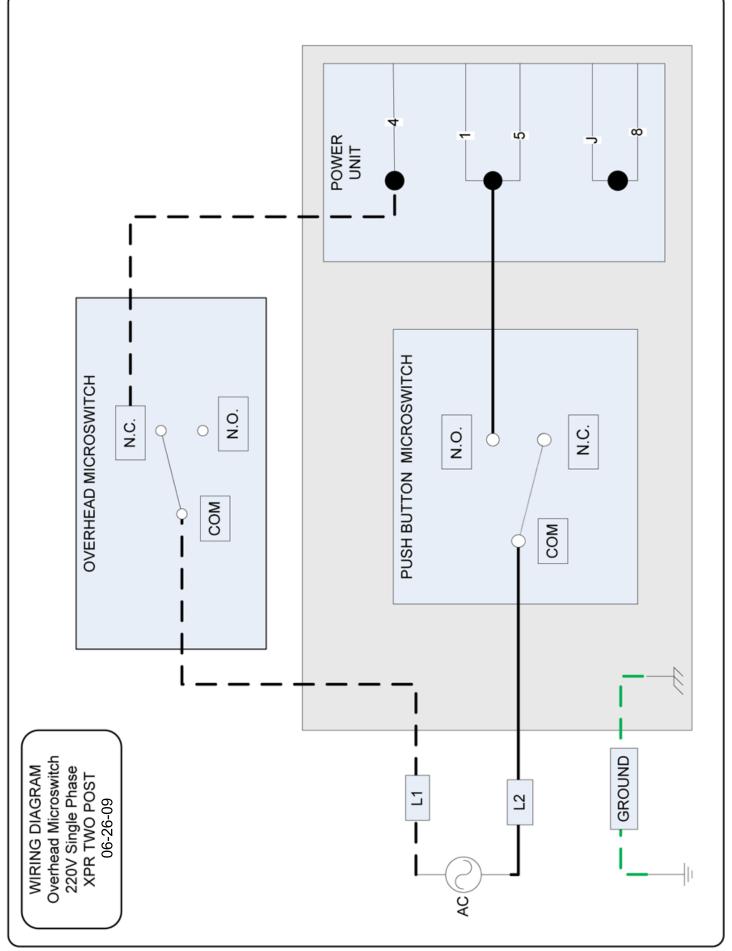
DO NOT attempt to raise a vehicle until a thorough operational check has been completed.

# ALL WIRING MUST BE PERFORMED BY A LICENSED ELECTRICIAN ONLY.

**Three Phase** 



## SEE WIRING INSTRUCTIONS AFFIXED TO POWER UNIT MOTOR FOR CORRECT WIRING INSTRUCTIONS FOR THAT SPECIFIC MODEL.



# STEP 15

#### (Power Unit Connection)

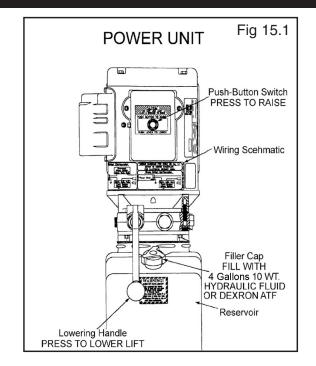
1. Have a licensed Electrician run the facility power supply to the Power Unit Motor. Refer to the data plate found on the motor for specific power requirements and wire size. **The Electrician must supply and install a Power Disconnect and a Thermal Disconnect for the Power Unit as per NEC requirements.** 



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.

# NOTE:

CAUTION NEVER OPERATE THE MOTOR ON LINE VOLTAGE LESS THAN 208V. MOTOR DAMAGE MAY OCCUR WHICH IS NOT COVERED UNDER WARRANTY. HAVE A LICENSED ELECTRICIAN RUN FACILITY POWER TO THE POWER UNIT MOTOR. SEE MOTOR OPERATING DATA LABEL. USE A SEPARATE CIRCUIT FOR EACH POWER UNIT. PROTECT EACH CIRCUIT FOR EACH POWER UNIT. TIME DELAY FUSE OR CIRCUIT BREAKER. ALL WIRING MUST COMPLY WITH ALL NEC AND LOCAL ELECTRICAL CODES.



STEP 16 (Lift Start Up / Final Adjustments)



DURING THE START-UP PROCEDURE, OBSERVE ALL OPERATING COMPONENTS AND CHECK FOR PROPER INSTALLATION AND ADJUSTMENT. DO NOT ATTEMPT TO RAISE VEHICLE UNTIL A THOROUGH OPERATIONAL CHECK HAS BEEN COMPLETED.

1. Verify the power unit reservoir is full. Oil quantities vary depending on which model power unit is supplied with the Lift. Quantities range from 3.5 to 4.5 gallons of 10-WT hydraulic oil or Dexron automatic transmission fluid.

2. Apply white lithium grease to the inside of the Posts where the Slide Blocks glide.

3. Test the Power Unit by pressing the Up Push Button. If the motor sounds like it is operating properly, raise the Lift and check all hose connections for leaks. If the motor gets hot or sounds peculiar, stop and check all electrical connections.

4. Before proceeding, double-check to make sure all cables are properly positioned within the grooves of ALL sheaves. Make sure all cable sheave retaining pins and/or clips are secure.

5. Check to make sure that all Safety Locks are cleared and free.

6. Continue to press the Up Button to raise Lift until the cables get taut and the Lift starts to move.

7. **KEEP HANDS AND FEET CLEAR**. Remove hands and feet from any moving parts. Keep feet clear of Lift when lowering. Avoid pinch points.

8. Check all MAIN SAFETY LOCKS to make sure they move freely and spring back to the lock position when released. Lubricate all SAFETY PIVOT points with light spray-oil.

9. Cycle the Lift up and down a few times to ensure that the Safety Locks are engaging uniformly and that the Safety Release mechanisms are functioning. Re-adjust if necessary.

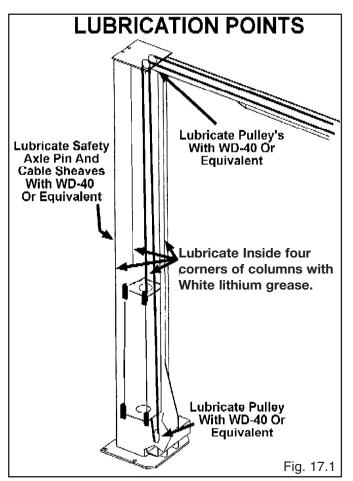
#### **POST-INSTALLATION CHECK-OFF**

- Posts properly shimmed and stable
- Anchor Bolts tightened
- Pivot / Sheave Pins properly attached
- Electric power supply confirmed
- Cables adjusted properly
- Safety Locks functioning properly
- Check for hydraulic leaks
- Oil level
- Lubrication of critical components
- Check for overhead obstructions
- All Screws, Bolts, and Pins securely fastened
- Surrounding area clean
- Operation, Maintenance and Safety Manuals on site.
- Perform an Operational Test with a typical vehicle

## **STEP 17**

(Lubrication)

 After installation and start up has been completed, lubricate lift components as described below. (See Fig. 17.1)



#### NOTE:

There will be initial stretching of the cables and/or with increased loads. Adjust the cables as outlined above a week after first use, then every three to six months thereafter depending on usage and/or to compensate for stretch.





THE LIFT WILL MOVE DOWN WHEN BLEEDING MAKE SURE ALL EQUIPMENT, PERSONNEL, HANDS AND FEET ARE CLEAR BEFORE BLEEDING

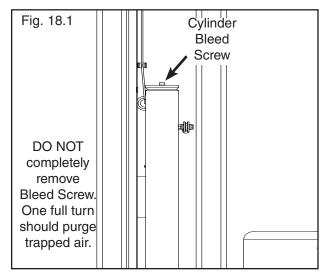
1. After electrical power is connected and Hydraulic Fluid reservoir is full, press Up Button to raise Lift.

2. Continue raising until Lift Cylinders fully extend to full height. DO NOT continue pressing button after Lift reaches full height. Damage to motor can occur if continued.

3. Lower the Lift only HALF WAY by pressing the SAFETY RELEASE handle inward then pressing in the DOWN lever on the Power Unit.

4. With the Lift at half height, slowly loosen the BLEED SCREWS located at the top of each Hydraulic Cylinder to bleed trapped air. DO NOT completely remove bleed screws. Re-tighten after trapped air has escaped. (See Fig. 18.1)

5. Lower the lift completely by pressing the SAFETY RELEASE handle inward then pressing the DOWN lever on power unit. Wait five minutes and repeat bleeding process one additional time.



## **OPTIONAL EQUIPMENT INSTALLATION**

# **Utility Air-Electric Workstation**

Utility Station may be mounted on the vertical column of the lift or on a wall.

IMPORTANT: Check State or Local codes for any height requirements for the electrical outlets before mounting.

To mount the Utility Station on a Lift Column, use the Box as a template, mark and drill 11/32" diameter holes. Use 5/16" diameter bolts and lock nuts to secure to the side of the lift.

# IMPORTANT: The hole locations are critical to avoid interference with the carriage slide blocks.

For Wall mounting , mount in the same fashion, use appropriate hardware for either sheet rock or concrete.

# IMPORTANT: All electrical wiring shall comply with all State and Local Codes.

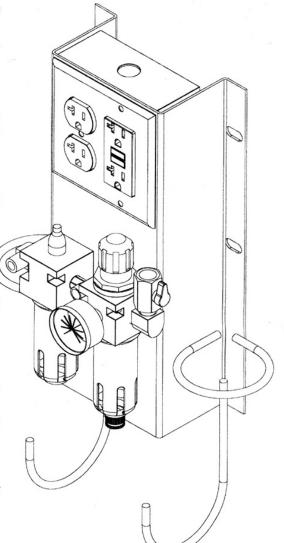
Connect electrical wiring to single phase, 60Hz 115 volt electrical supply using suitable conduit (not supplied). The duplex receptacle must be connected through the GFCI with the input line to the box connected to a circuit breaker or time delay fuse rated at 20 amps. Both receptacles must be grounded to the box.

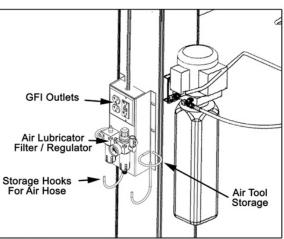
Connect main air supply to 1/4" ball valve inlet on the Utility Station (Run 1/2" line from compressor or main air system to Utility Station.)

Install Quick Couplers to the 1/4" male fittings on the box. The air supply between the filter and the lubricator will be non-lubricated, used for tire inflation or blowing off. The air outlet on the left side will be lubricated for air tool use.

#### **Regulator Instructions**

- Regulate pressure by raising the knob, then turning clockwise to increase and counterclockwise to decrease. Push knob down to lock setting.
- Adjust the oil mist using the screwdriver slot located on top of the lubricator.
- To fill the lubricator, first depressurize the air system, remove the slotted screw plug in the body. Replace the screw before repressurizing.





#### STEP 19 (Operation Instructions)

#### **OWNER/EMPLOYER RESPONSIBILITIES**

#### The Owner/Employer:

• Shall ensure that lift operators are qualified and that they are trained in the safe use and operation of the lift using the manufacturer's operating instructions; ALI/SM 10-01, ALI Lifting it Right safety manual; AL-ST-17 ALI Safety Tips card; ANSI/ALI ALOIM (Current Edition), American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; ALI/WL Series, ALI Uniform Warning Label Decals/Placards; and in the case of frame engaging lifts, ALI/LP-GUIDE, Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts.

• Shall establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM (Current Edition), American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and The Employer shall ensure that lift inspectors are qualified and that they are adequately trained in the inspection of the lift.

• Shall establish procedures to periodically maintain the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM (Current Edition), American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and the Employer shall

ensure lift maintenance personnel are qualified and that they are adequately trained in the maintenance of the lift.

• Shall maintain the periodic inspection and maintenance records recommended by the manufacturer or ANSI/ALI ALOIM (Current Edition), American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance.

• Shall display the lift manufacturer's operating instructions; ALI/SM 10-01, ALI Lifting It Right safety manual; AL-ST-17 ALI Safety Tips card; ANSI/ALI ALOIM (Current Edition), American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and in the case of frame engaging lifts, ALI/LP-GUIDE, Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts; in a conspicuous location in the lift area convenient to the operator.

• Shall provide necessary lockout/tagout means for energy sources per ANSI Z244.1-(Current Edition), Safety Requirements for the Lockout/Tagout of Energy Sources, before beginning any lift repairs.

• Shall not modify the lift in any manner without the prior written consent of the manufacturer.



#### LIFT OPERATION SAFETY

• **DAILY** inspect your lift. Never operate if it malfunctions or if it has broken or damaged parts. Use **only** qualified lift service personnel and genuine BendPak parts to make repairs.

• **THOROUGHLY** train all employees in use and care of lift, using manufacturer's instructions and "Lifting It Right" and "Safety Tips" supplied with the lift.

• **NEVER** allow unauthorized or untrained persons to position vehicle or operate lift.

• **PROHIBIT** unauthorized persons from being in shop area while lift is in use.

• **DO NOT** permit anyone on lift or inside vehicle when it is either being raised or lowered.

• ALWAYS keep area around lift free of tools, debris, grease and oil.

• **NEVER** overload lift. Capacity of lift is shown on nameplate affixed to the lift.

• **DO NOT** stand in front of the vehicle while it is being positioned in lift bay.

• **DO NOT** hit or run over lift arms or adapters. This could damage lift or vehicle. Before driving vehicle into lift bay, position arms and adapters to provide unobstructed entrance onto lift.

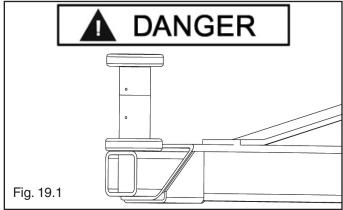
• **DO NOT** block open or override self-closing lift controls; they are designed to return to the "Off" or Neutral position when released.

• DO NOT remove or disable arm restraints.

• ALWAYS remain clear of lift when raising or lowering vehicles.

#### LIFT OPERATION SAFETY (CONT'D)

• ALWAYS load vehicle on lift carefully. Position the lift adapters to contact at the vehicle manufacturer's recommended lift points. Raise lift until adapters contact vehicle. Check adapters for secure contact with vehicle. Raise lift to desired working height. (See Fig.19.1)



•ALWAYS use safety stands when removing or installing heavy components.

• **DO NOT** go under raised vehicle if safety locks are not engaged.

# **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, REFER TO INSTALLATION/OPERATION MANUAL FOR PROPER SAFETY LOCK PROCEDURES AND/OR FURTHER INSTRUCTION.

• NEVER LEAVE LIFT IN ELEVATED CONDITION unless all Safety Locks are engaged.

- AVOID excessive rocking of vehicle while on lift.
- ALWAYS CLEAR AREA if vehicle is in danger of falling.

• ALWAYS REMOVE tool trays, stands, etc. before lowering lift.

• ALWAYS RELEASE safety locks before attempting to lower lift.

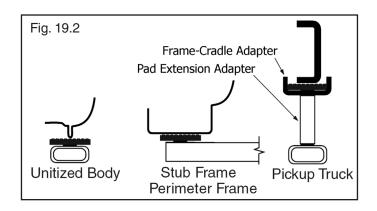
• ALWAYS POSITION the lift arms and adapters to provide an unobstructed exit before removing vehicle from lift area.

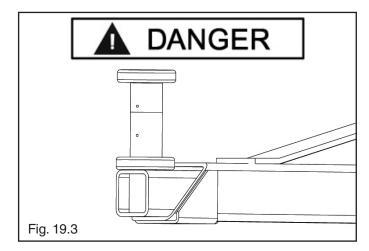


WHEN LOWERING THE LIFT PAY CAREFUL ATTENTION THAT ALL PERSONNEL AND OBJECTS ARE KEPT CLEAR. ALWAYS KEEP A VISUAL LINE OF SITE ON THE LIFT AT ALL TIMES. ALWAYS MAKE SURE THAT ALL LOCKS ARE DISENGAGED. IF ONE OF THE LOCKS INADVERTENTLY LOCKS UPON DESCENT THE VEHICLE MAY DISMOUNT CAUSING PERSONAL INJURY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



TO AVOID PERSONAL INJURY AND/OR PROPERTY DAMAGE, PERMIT ONLY TRAINED PERSONNEL TO OPERATE LIFT. AFTER REVIEWING THESE INSTRUCTIONS, PRACTICE USING LIFT CONTROLS BY RUNNING THE LIFT THROUGH A FEW UNLOADED CYCLES BEFORE LOADING VEHICLE ON LIFT. ALWAYS LIFT THE VEHICLE USING ALL FOUR ADAPTERS. **NEVER** RAISE JUST ONE END, ONE CORNER, OR ONE SIDE OF VEHICLE.





# **OPTIONAL AND STANDARD ACCESSORIES**



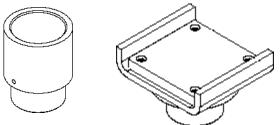
NEVER PLACE LIFT PADS ON NON-APPROVED, NON-LOAD HOLDING SILL COVERS OR SIDE SKIRTS!



# **STANDARD ACCESSORIES**

#### Adapters included with the XPR-12, -15, -18 Lifts:

- Four Drop-in Frame Cradle Pads (5215702)
- Four Medium Adapters (5746192)
- Four Tall Adapters (5746193)
- Two Adapter Holders (5701660)

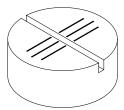


# **OPTIONAL ACCESSORIES**

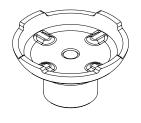
#### Visit BendPak.com for optional Accessories as below:

• Pinch-Weld Puck (5210263)

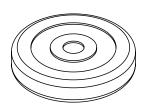




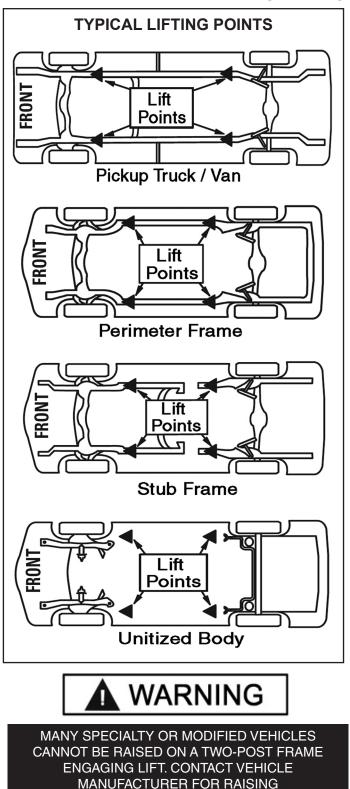
• Steel Lift Pad (5215763)



• Replacement Polyurethane Pads (5700227)



# LIFT OPERATION SAFETY (CONT'D)



OR JACKING DETAILS.

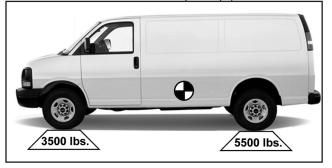
## TO RAISE THE LIFT

1. Before Loading: Lift must be fully lowered and service bay clear of all personnel before the vehicle is brought on lift with the swing arms set to the full drive-thru position.

2. Loading: Swing arms under vehicle and position adapters at vehicle manufacturer's recommended lift points. Use height extenders or optional frame-cradle adapters when necessary to ensure good contact. (See Fig 19.2 - 19.3)

3. Some vehicles may have the manufacturer's Service Garage Lift Point locations identified by triangle shape marks on the undercarriage (reference ANSI/SAE J2184-1992). Also, there may be a label located on the right front door jamb area showing specific vehicle lift points.

4. Position vehicle for proper weight distribution arms under vehicle to allow adapters to contact at the manufacturer's recommended pick up points.



5. If the specific vehicle lift points are not identified, refer to the VEHICLE CENTER OF BALANCE instructions found on our website at:

#### http://www.bendpak.com/support/balancing-safety/

6. Push the Raise Button to rotate the control switch on the Power Unit.

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

7. 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.

8. Raise vehicle until tires clear the floor.

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

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

# LIFT OPERATION SAFETY (CONT'D)

11. **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.

12. Repeat entire loading and raising procedures if required.



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.

13. Lower lift onto safety locks.

• **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 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.

# TO LOWER THE LIFT

- 1. Remove all tools or other objects from the lift area.
- 2. Raise lift off safety locks.
- 3. Push safety lock release handle fully and hold.

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 decals.

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



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.

personnel.

# LIFT OPERATION SAFETY (CONT'D)

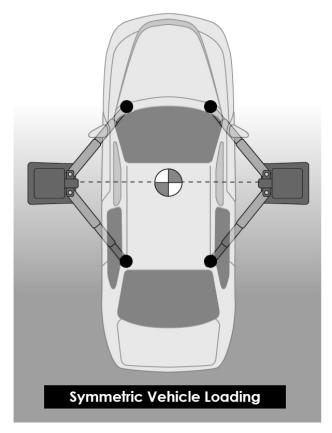
## MAINTENANCE INSTRUCTIONS

- Always keep bolts tight. Check periodically.
- Always keep lift components clean.
- Always if oil leakage is observed, call local service representative.
- Always call local service representative if electrical problems develop.
- 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 BendPak parts.
- Daily: Inspect adapters for damage or excessive wear. Replace as required with genuine BendPak

- parts.
- Weekly: Lubricate all sheave 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 85 to 95 ft/lbs.
- Semi-Annually: Check fluid level of lift power unit and refill if required per lift installation instructions.
- Replace all caution, warning or safety related decals on the lift if unable to read or missing. Reorder labels from BendPak.
- Refer to ANSI/ALI ALOIM booklet for periodic inspection checklist and maintenance log sheet.



Before lifting the vehicle, make sure it is neither front nor rear heavy. See image below. Center of balance should be midway between adapters.



#### 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 vertice
- 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 in. 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 handle.
- 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.

#### MAINTENANCE

UNLESS STATED OTHERWISE, ALL MAINTENANCE CAN BE PERFORMED BY THE OWNER/EMPLOYER AND DOES NOT REQUIRE TRAINED LIFT SERVICE PERSONNEL.



BEFORE PERFORMING ANY MAINTENANCE ON YOUR LIFT, MAKE SURE IT IS COMPLETELY DISCONNECTED FROM POWER. IF YOUR ORGANIZATION HAS TAGOUT/LOCKOUT POLICIES, MAKE SURE TO IMPLEMENT THOSE PROCEDURES AFTER CONNECTING TO THE POWER SOURCE.

- Monthly. Check all arm adjusting locks for proper operation.
- Monthly. Check all cables connections, bolts and pins to ensure proper mounting and torque.
- Monthly. Visually inspect safeties for proper operation.
- Monthly. Lubricate Posts with white lithium grease.
- Monthly. Inspect all anchors bolts and retighten if necessary.
- Monthly. Check all Posts for squareness and plumb.
- Monthly. Inspect all pivot arms pins making sure they are properly secure.
- Monthly. Check equalizer cable tension, and adjust if necessary.
- Monthly. If lift is equipped with over head cut-off 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.



# WIRE ROPE INSPECTION AND MAINTENANCE

• Lifting cables should be replaced every three - 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 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 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.

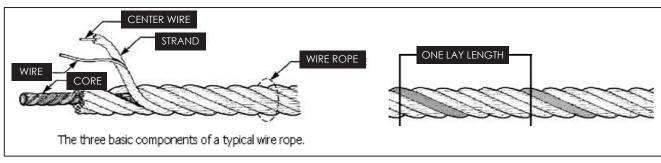
# HOW OFTEN TO INSPECT

• 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 meet 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.

# Safe Lift Operation

It is your responsibility to operate your lift safely.

Lift training should include, but not be limited to, the following:

- 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.

Other important safety rules include:

- It is important that you know the load limit. Never overload the lift. If you are unsure what the load limit is, check the data plate found on one of the Lift Posts or contact the manufacturer.
- Make sure any vehicle you put onto the lift is balanced. Always use the manufacturer's recommended lifting points.
- 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.
- Make sure the safeties are engaged and lowered on to the safety ladders before any attempt is made to work on or near a 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.



If your lift is **not** functioning correctly, you must take it out of service until it is fixed. All repair work must be performed by qualified personnel. If your organization has Lockout/Tagout policies, implement them after connecting the Lift to the power source.

# LIFT WILL NOT RAISE

#### POSSIBLE CAUSE

- 1. Air in oil, (See remedy 1,2,8,13)
- 2. Cylinder binding, (9)
- 3. Cylinder leaks internally, (9)
- 4. Motor run backward under pressure, (11)
- 5. Lowering valve leaks, (3,4,6,10,11)
- 6. Motor runs backwards, (7,14,11)
- 7. Pump damaged, (10,11)
- 8. Pump won't prime, (1,8,13,14,3,12,10,11)
- 9. Relief valve leaks, (10,11)
- 10. Voltage to motor incorrect, (7,14,11)

1. Check for proper oil level.		<b>INSTRUCTION</b> The oil level should be up to the bleed screw in the reservoir with the lift all the way down.			
2.	Bleed cylinders	See Installation Manual			
3.	Flush- Release valve to get rid of	. Hold release handle down and start unit allowing it to run for 15 seconds.			
4.	Dirty oil	Replace oil with clean Dexron ATF.			
5.	Tighten all fasteners	. Tighten fasteners to recommended torques.			
6.	Check for free movement of release	. If handle does not move freely, replace bracket or handle assembly.			
7.	Check motor is wired correctly	. Compare wiring of motor to electrical diagram on drawing.			
8.	Oil seal damaged or cocked	. Replace oil seal around pump shaft.			
9.	See Installation Manual	. Consult Lift Manufacturer.			
10.	Replace with new part	.Replace with new part.			
11.	Return unit for repair	. Return unit for repair.			
12.	Check pump-mounting bolts	. Torque bolts to 15 to 18 ft. lbs.			
13.	Inlet screen clogged	.Clean inlet screen or replace.			

14. Check wall outlet voltages and wiring ..... Make sure unit and wall outlet are wired properly.

# MOTOR WILL NOT RUN

#### **POSSIBLE CAUSE**

- 1. Fuse or circuit breaker blown, (5,2,1,3,4)
- 2. Limit switch burned out, (1,2,3,4)
- 3. Microswitch burned out, (1,2,3,4)
- 4. Motor burned out, (1,2,3,4,6)
- 5. Voltage to motor incorrect, (2,1,7)

<b>RE</b> 1.	MEDY Check for correct voltage	<b>INSTRUCTIONS</b> Compare supply voltage with voltage on motor name tag. Check that the wire is sized appropriately for voltage, distance and load.
2.	Check motor is wired correctly	Compare wiring of motor to electrical diagram on the motor cover.
3.	Don't use extension cords	The size of the extension conductors should be such that the voltage drop does not exceed 3% to the farthest outlet for power. *Do not run motor at 220VAC motors at 115VAC - damage to the motor will occur.
4.	Replace with new part	Replace with new part.
5.	Reset circuit breaker/fuse	Reset circuit breaker/fuse.
6.	Return unit for repair	Return unit for repair.
7.	Check wall outlet voltage and wiring	Make sure unit and wall outlet is wired properly. Motor must run at 208/230 VAC.

# LIFT LOWERS SLOWLY OR NOT AT ALL

#### POSSIBLE CAUSE

- 1. Cylinders binding, (1)
- 2. Release valve clogged, (5,4,2,3)
- 3. Pressure fitting too long, (6)

	<i>IEDY</i> See Installation Manual	INSTRUCTIONS Consult Lift Manufacturer.
2.	Replace with new part	Replace with new part.
3.	Return for repair	Return for repair.
4.	Check oil	Use clean 10-WT hydraulic oil or Dexron automatic transmission fluid only. If ATF is contaminated, replace with clean ATF and clean entire hydraulic system.
5. C	lean release valve	Wash release valve in solvent and blow out with air.
6. R	eplace fitting with short thread lead	Replace fitting with short thread lead.

# WILL NOT RAISE LOADED LIFT

#### POSSIBLE CAUSE

- 1. Air in oil, (1,2,3,4)
- 2. Cylinder binding, (5)
- 3. Cylinder leaks internally, (5)
- 4. Lift overloaded, (6,5)
- 5. Lowering valve leaks, (7,8,1,5,9)
- 6. Motor runs backwards, (10,12,9)
- 7. Pump damaged, (5,9)
- 8. Pump won't prime, (1,2,3,4,5,11,9)
- 9. Relief valve leaks, (8,5,9)
- 10. Voltage to motor incorrect, (10,12,5)

#### REMEDY **INSTRUCTIONS** 1. Check oil level ..... The oil level should be up to the bleed screw in the reservoir with the lift all the way down. Check/Tighten inlet tubes ..... Replace inlet hose assembly. 2. Oil seal damaged or cocked ..... Replace oil seal and install. 3. Bleed cylinders ..... See Installation Manual. 4. See Installation Manual ..... Consult Lift Manufacturer. 5. Check vehicle weight ...... Compare weight of vehicle to weight limit of the lift. 6. Flush release valve ..... Hold release handle down and start unit allowing it to 7. run for 15 seconds. Replace with new part ..... Replace with new part. 8. Return unit for repair ..... Return unit for repair. 9. 10. Check motor is wired correctly ...... Compare wiring of motor to electrical diagram on power unit drawing. 11. Inlet screen clogged ..... Clean inlet screen or replace. 12. Check wall outlet voltage and wiring ..... Make sure unit and wall outlet is wired properly.

# **IMPORTANT**

If a vehicle becomes stranded in the air, follow all operation instructions as shown on pages 35 - 40.

If, after observing that all mechanical locks are released and the lift still fails to move following all standard operating procedures, immediately stop using the lift and contact the factory or a factory-approved service center for further instructions. Mark and tag the Lift as out of service and keep all personnel away.

# LIFT WILL NOT STAY UP

#### **POSSIBLE CAUSE**

- 1. Air in oil, (1, 2, 3)
- 2. Check valve leaks, (6)
- 3. Cylinders leak internally, (7)
- 4. Lowering valve leaks, (4, 5, 1, 7, 6)
- 5. Leaking fittings, (8)

# **REMEDYINSTRUCTIONS**1. Check oil level ......The oil level should be up to the bleed screw in the<br/>reservoir with the lift all the way down.2. Oil seal damaged and cocked ......Replace oil seal around pump shaft.3. Bleed cylinder .....Refer to Installation Manual.4. Flush release valve ....Hold release handle down and start unit allowing it to<br/>run for 15 seconds.5. Replace with new valve ....Replace with new valve.6. Return unit for repair ....Return unit for repair.7. See Installation Manual ....Consult Lift Manufacturer.8. Check complete hydraulic system for leaks.Tighten all hydraulics fittings and inspects all hoses.

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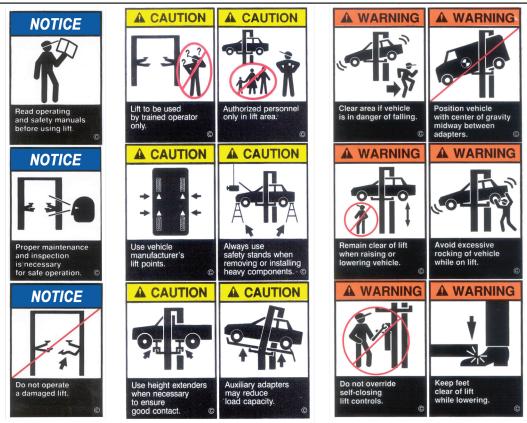
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Internal packing of may cause the cylinders to blood oil curing start up. This is normal. To extend cylinder and seal life, raise the lift to full height at least once every day.

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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.

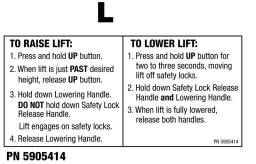
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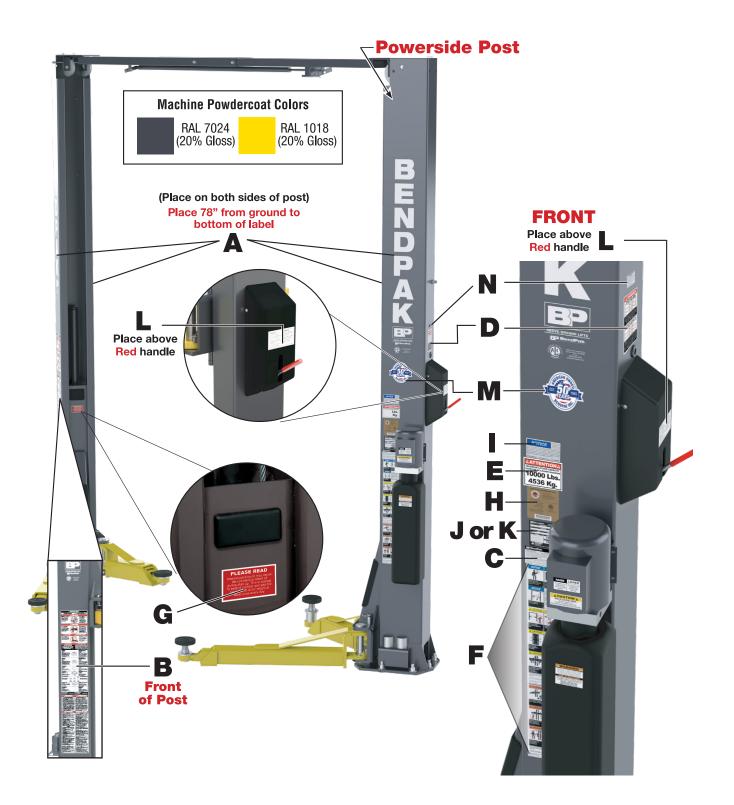


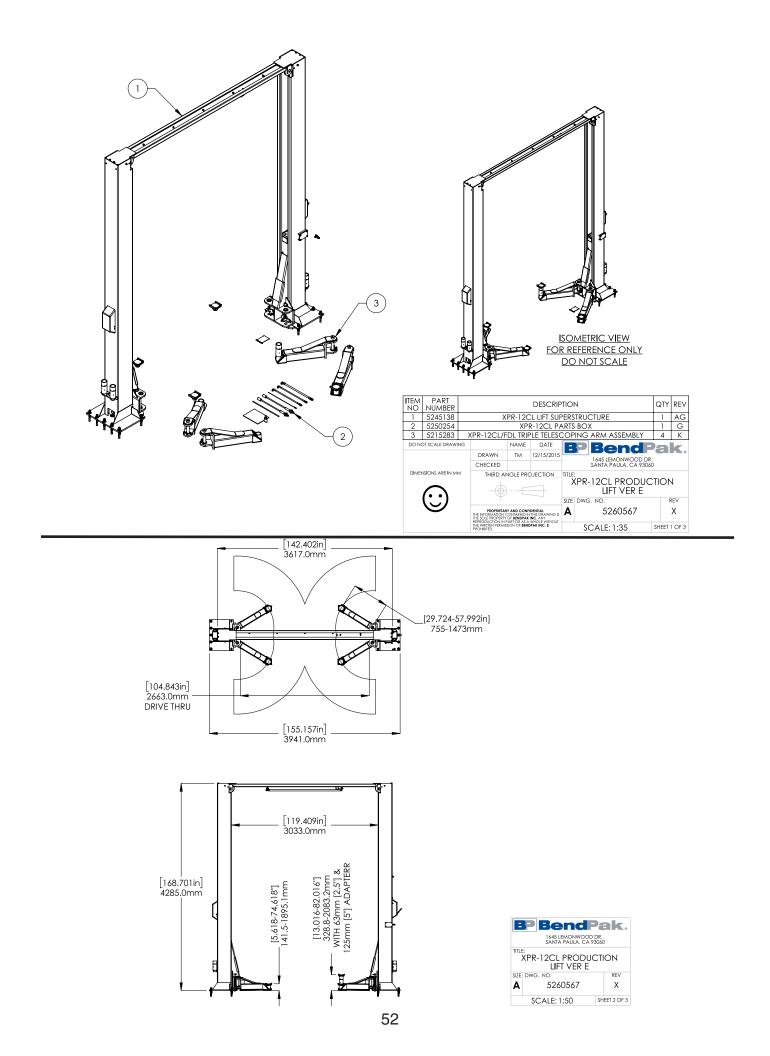
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N **CALIFORNIA PROPOSITION 65** \Lambda WARNING \Lambda WARNING! This product can expose you to chemicals including styrene and vinyl chloride which are on the list of over 900 chemicals identified by the State of California to cause cancer. birth defects or reproductive harm. ALWAYS use this product in accordance with the manufacturer's instructions. For more information, go to www.p65warnings.ca.gov. PN 5905775

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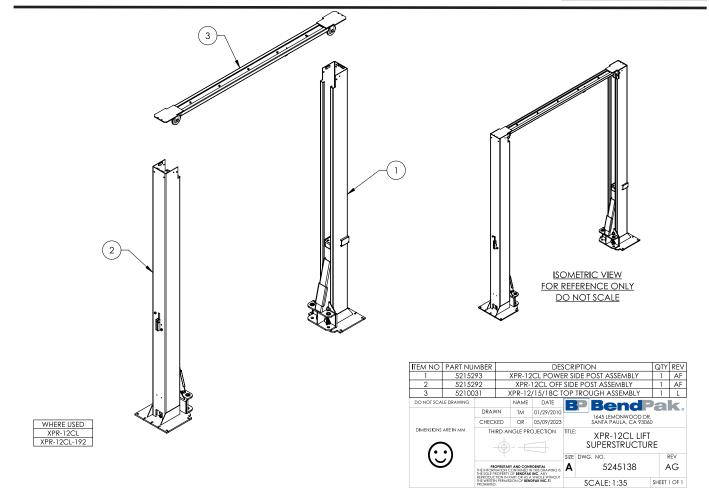
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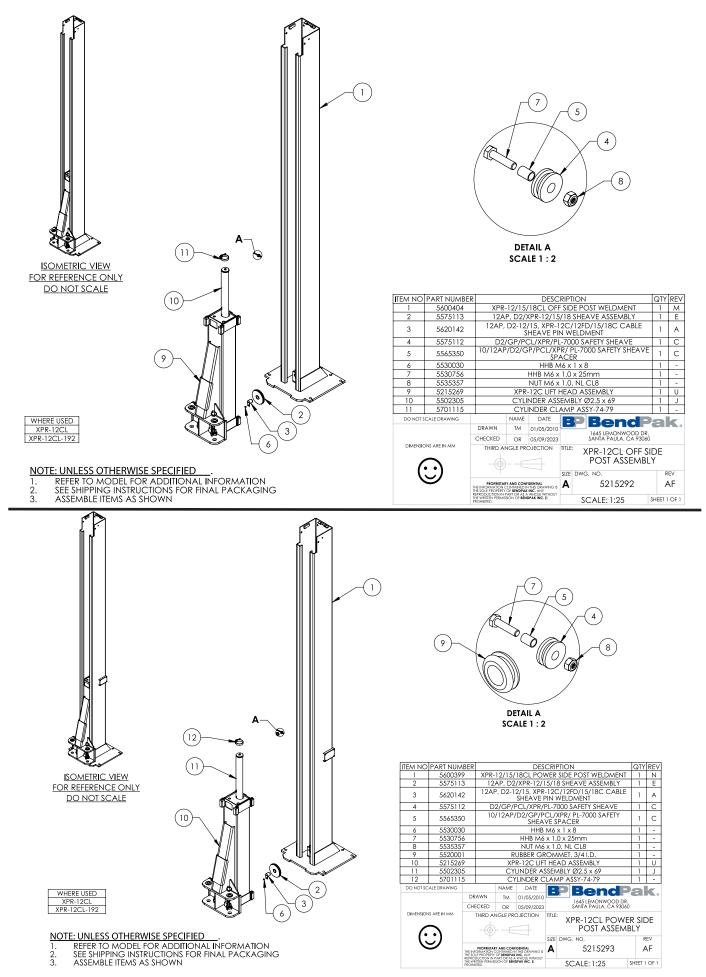


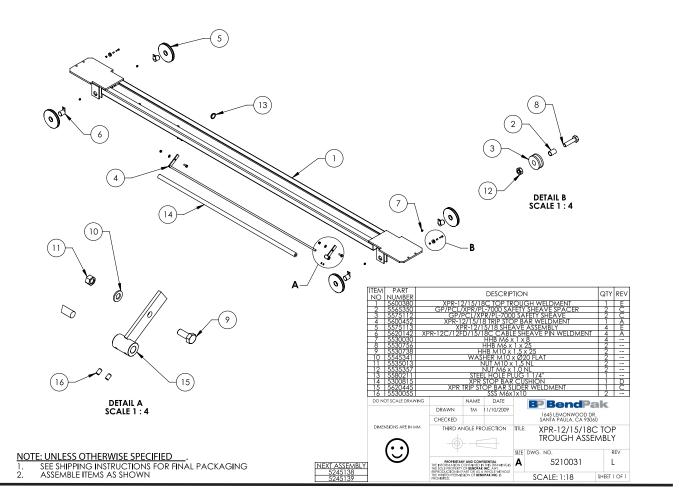


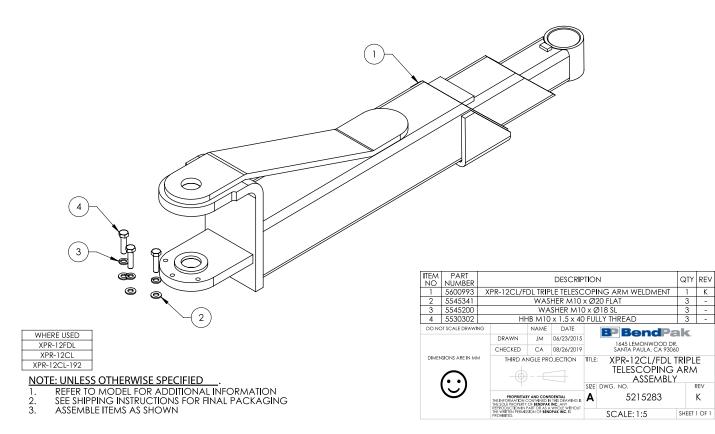
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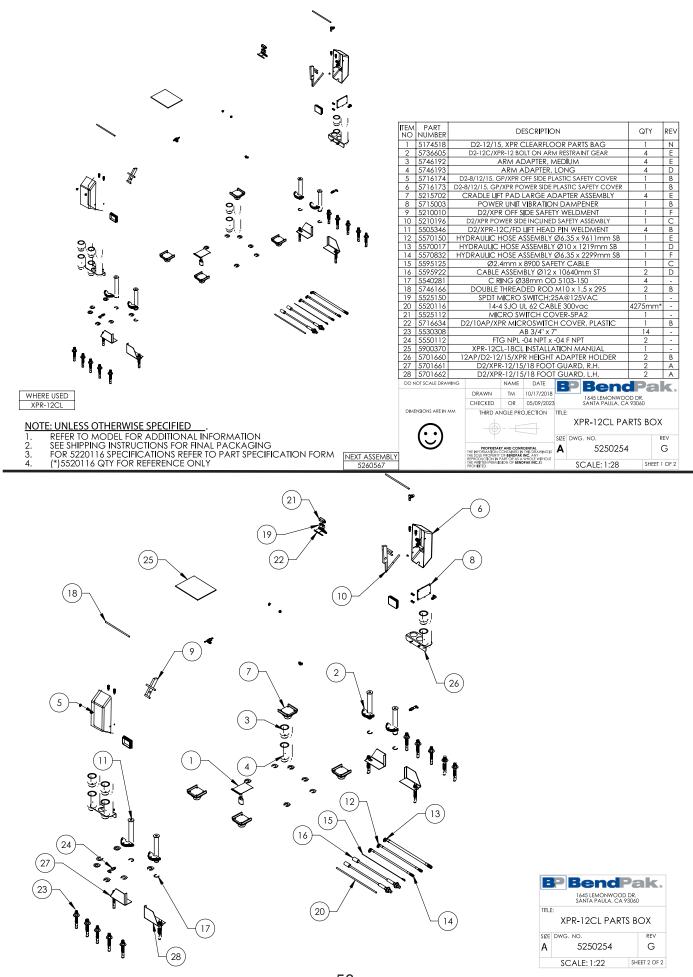
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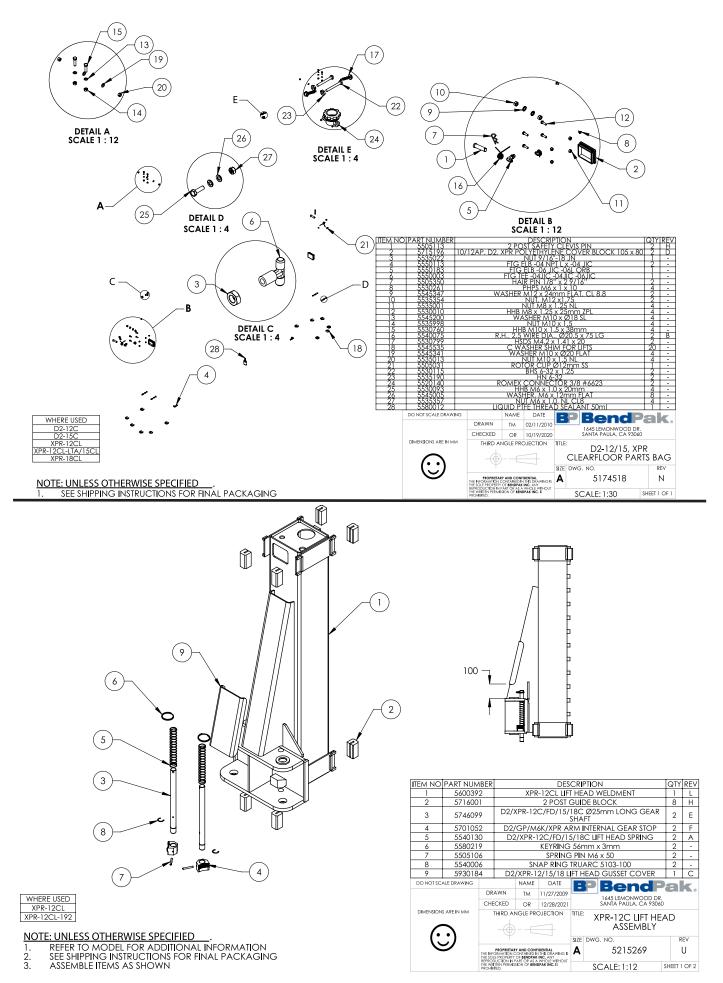


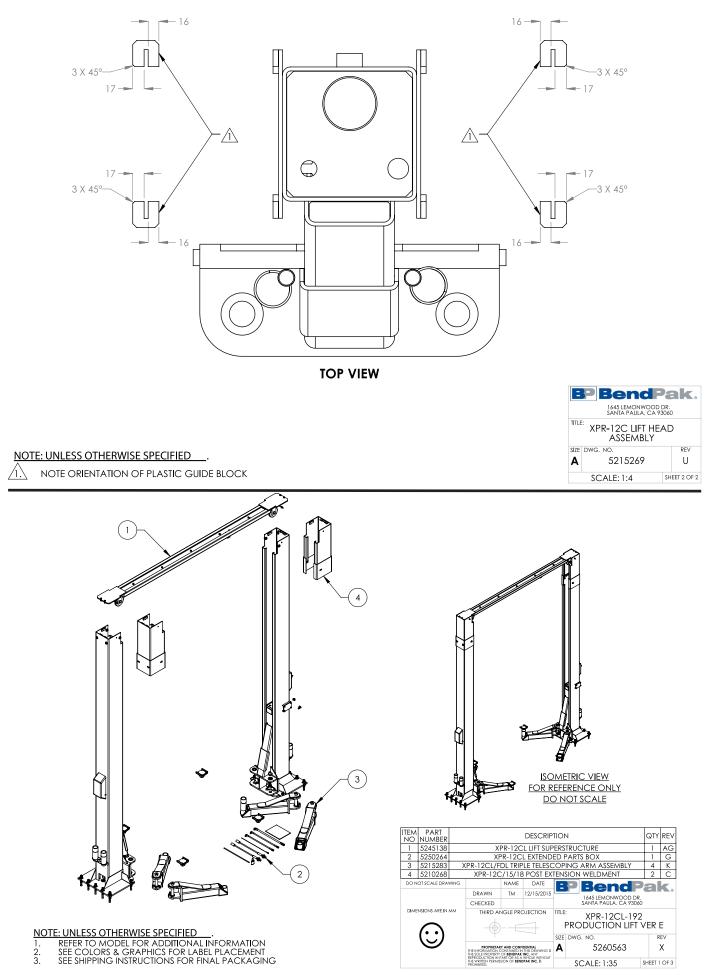


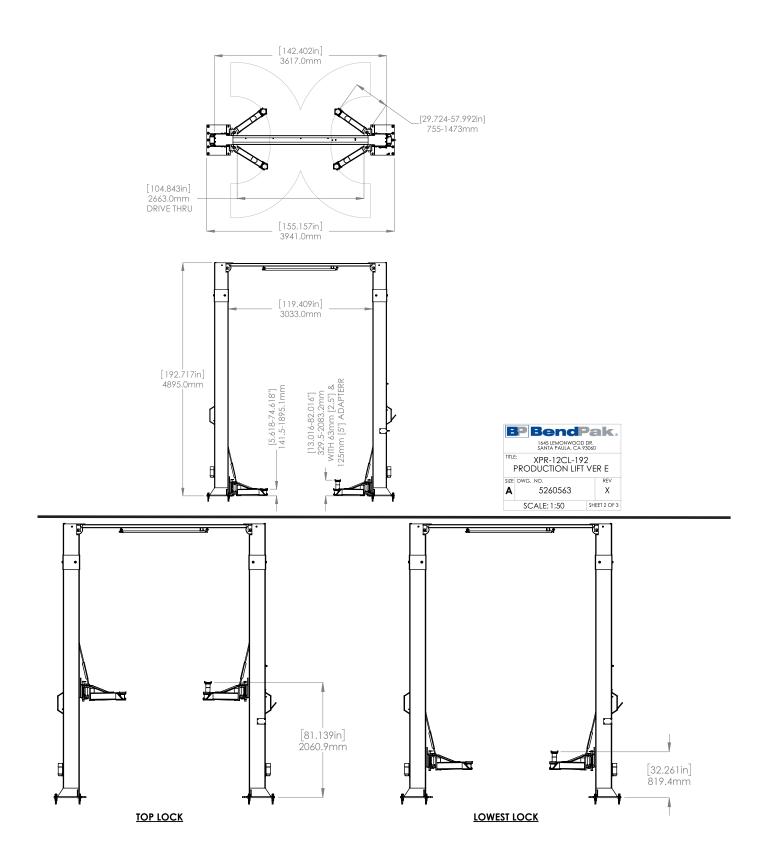








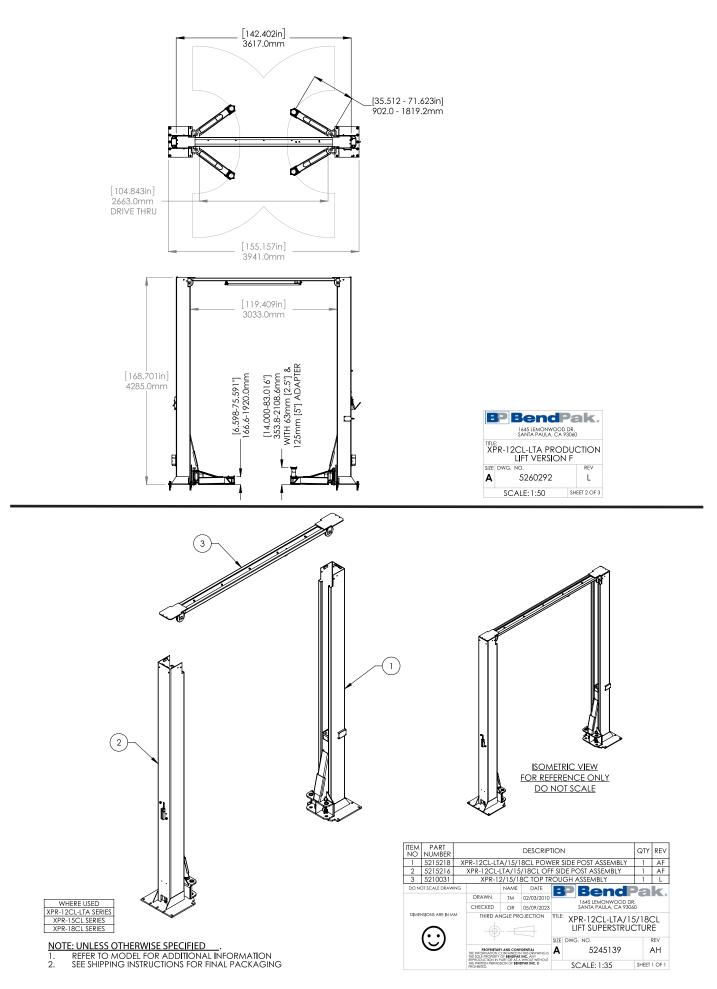


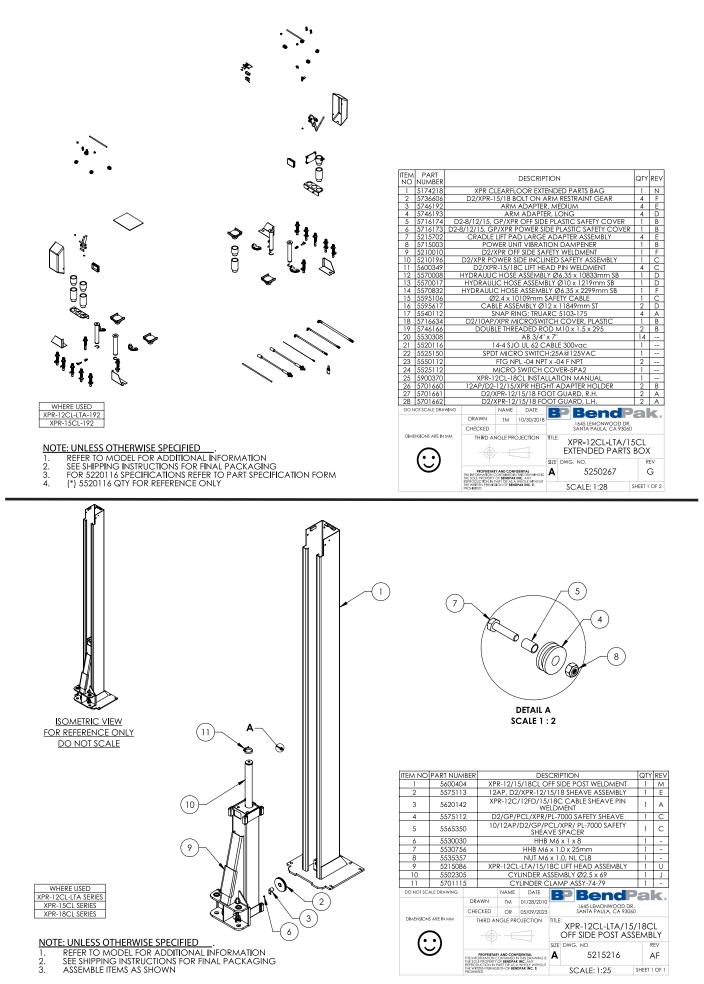


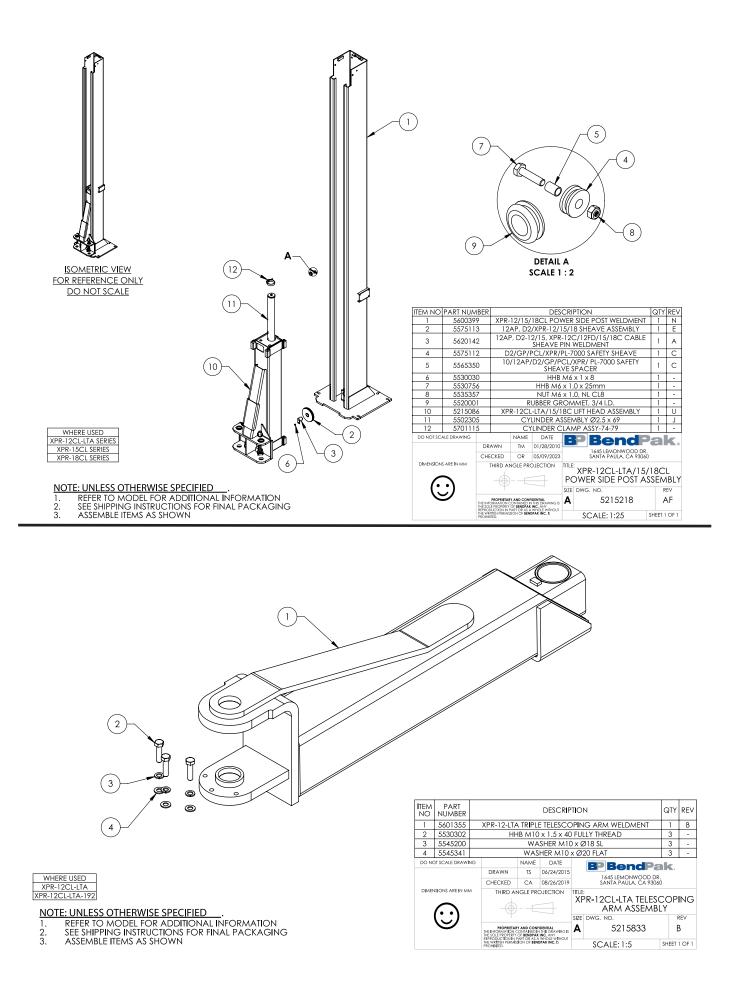
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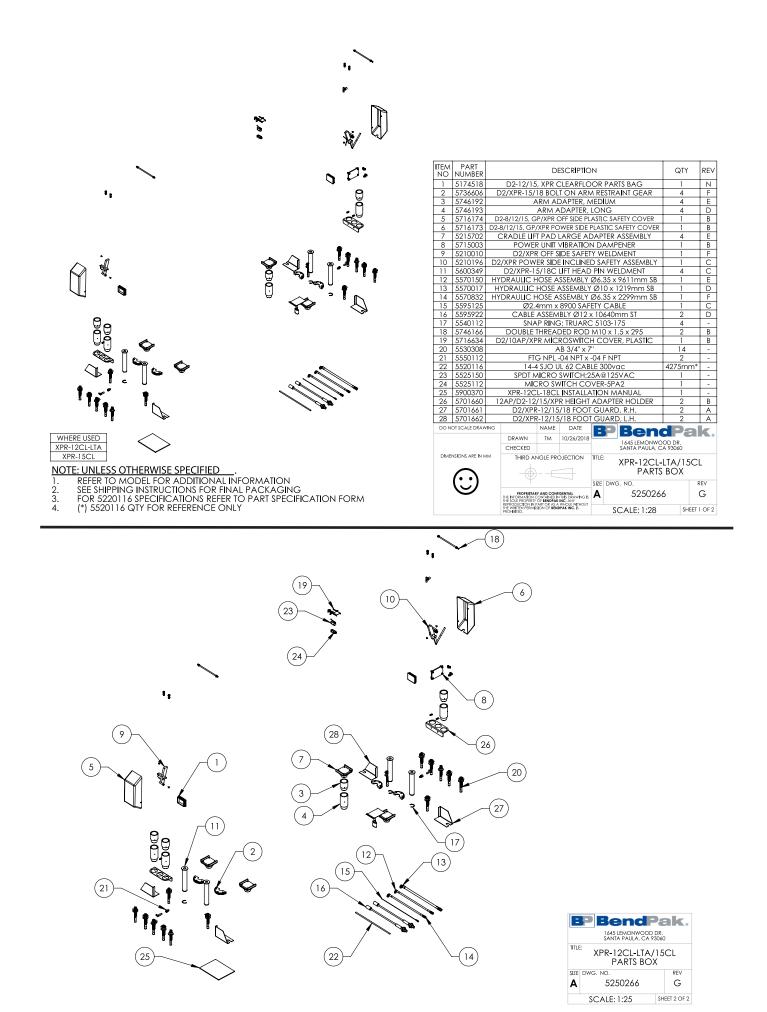
	TEM       PART NO NUMBER       DESCRIPTION       QTY       REV         1       5174218       XPR CLEARFLOOR EXTENDED PARTS BAG       1       N         2       5736605       D2-12C/XPR-12 BOLT ON ARM RESTRAINT GEAR       4       E         3       5746192       ARM ADAPTER. MEDIUM       4       E         4       5746193       ARM ADAPTER. MEDIUM       4       E         5       5716174       D2-8/12/15, GP/XPR OFF SIDE PLASTIC SAFETY COVER       1       B         6       5716173       D2-8/12/15, GP/XPR POWER SIDE PLASTIC SAFETY       1       B
	7       \$215702       CRADLE LIFT PAD LARGE ADAPTER ASSEMBLY       4       E         8       \$715003       POWER UNIT VIBRATION DAMPENER       1       B         9       \$210010       D2/XPR POWER SIDE INCLINED SAFETY WELDMENT       1       F         10       \$210196       D2/XPR POWER SIDE INCLINED SAFETY ASSEMBLY       1       C         11       \$505346       D2/XPR POWER SIDE INCLINED SAFETY ASSEMBLY       1       C         11       \$505346       D2/XPR POWER SIDE INCLINED SAFETY ASSEMBLY       1       C         13       \$570017       HYDRAULC HOSE ASSEMBLY Ø6.35 x 10833mm SB       1       D         13       \$570832       HYDRAULC HOSE ASSEMBLY Ø6.35 x 2299mm SB       1       F         15       \$595106       Ø2.4 x 10109mm SAFETY CABLE       1       C         16       \$595617       CABLE ASSEMBLY Ø1.2 x 11849mm S1       2       D         17       \$540281       C RING Ø38mm OD 5103-150       4          18       \$744166       DOUBLE THREADED ROD M10 x 1.5 x 295       2       B         19       \$716434       D2/10AP/XPR MICROSWITCH COVER, PLASIIC       1       B         20       \$5530308       AB 3/4" x 7"       14
WHERE USED XPR-12CL-192 NOTE: UNLESS OTHERWISE SPECIFIED 1. REFER TO MODEL FOR ADDITIONAL INFORMATION 2. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING 3. FOR 5220116 SPECIFICATIONS REFER TO PART SPECIFICATION 4. (*) 5520116 QTY FOR REFERENCE ONLY	I FORM
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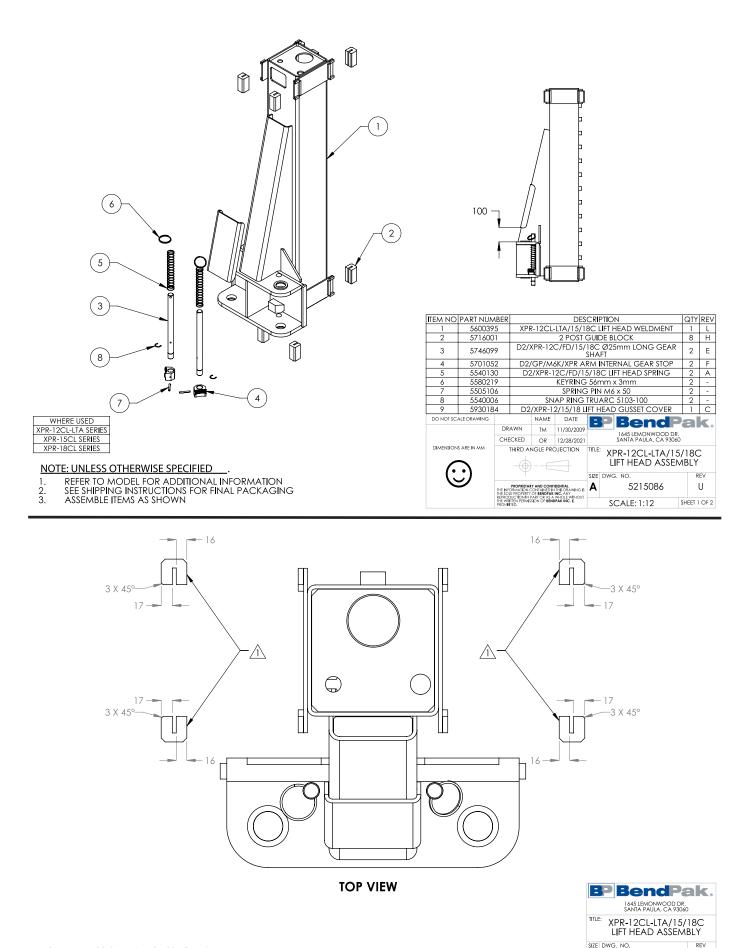
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WHERE USED XPR-12CL-192 XPR-12CL-17A-192 XPR-15CL-192 XPR-18CL-192 NOTE: UNLESS OTHERWISE SPECIFIED . 1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING	27         5520140         ROMEX CONNECTOR 3/8 #6623         2         -           28         5580012         LIQUID PTFE THREAD SEALANT 50ml         1         -           29         5530073         HHB M6 x 1.0 x 20mm         4         -           30         5545005         WASHER, M6 x 12mm FLAT         8         -           31         5535357         NUT M6 x 1.0, NL CL8         4         -           D0 NOT SCALE DRAWING         NAME         DATE         Bencherak.         -           DMENSIONS ARE IN MM         IMB ANGLE PROJECTION         THR ANGLE PROJECTION         TITLE:         XPR CLEARFLOOR           Encorport of MERSHING AND CONTRACT OR SA AN CEMPTON WHERE ADD THREAD THREAD TO SAN TO PAULA. CA 93000         TITLE:         XPR CLEARFLOOR           Encorport of MERSHING AND CONTROL OF MERSHING AND THREAD THREA
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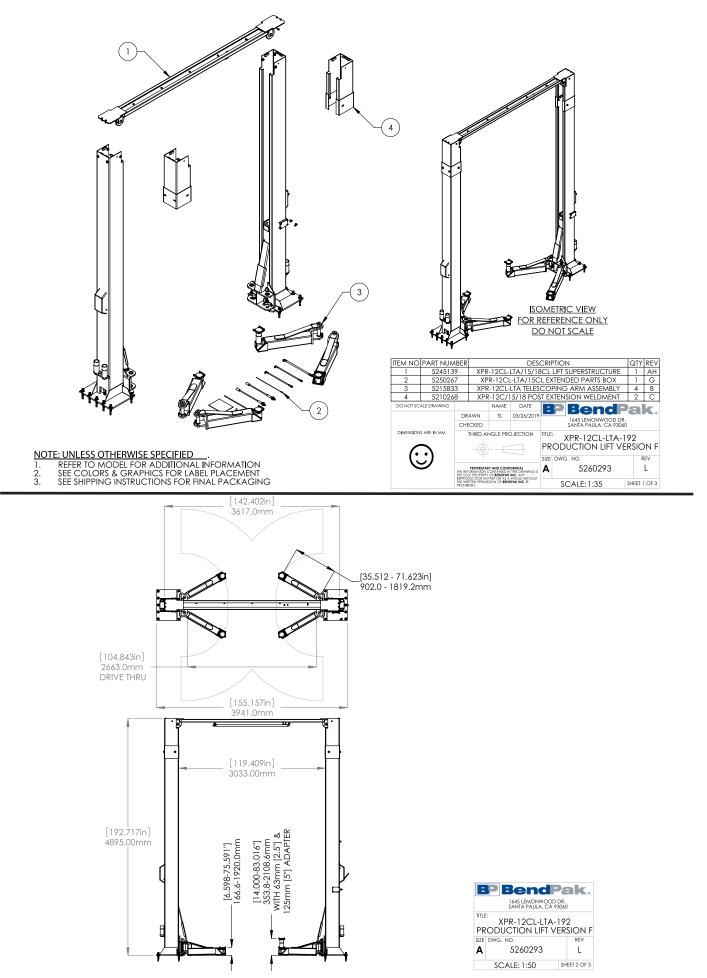
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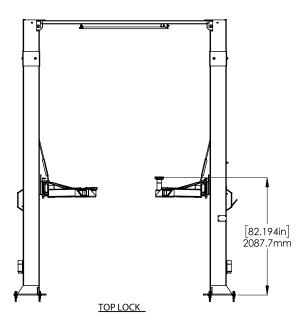
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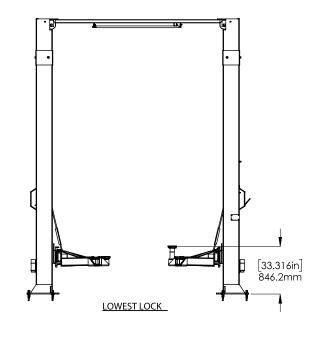
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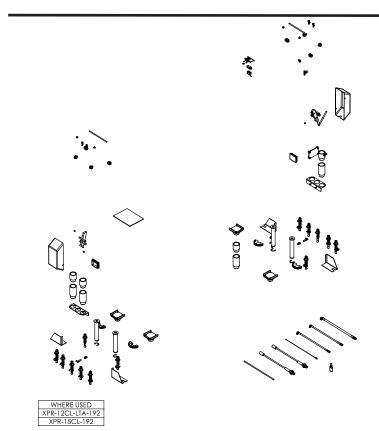
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3	5746192	02/11		ADAPTER			4	E
4	5746193						4	D
5	5716174	D2-8/12/				ASTIC SAFETY COVER	1	B
6	5716173					PLASTIC SAFETY COVER	i	B
7	5215702					APTER ASSEMBLY	4	E
8	5715003		POWER UN	IT VIBRAT	ION	DAMPENER	1	B
9	5210010	[	D2/XPR OF	F SIDE SA	FETY	WELDMENT	1	F
10	5210196	D2/XPF	POWERS	IDE INCLI	NED	SAFETY ASSEMBLY	1	С
11	5600349	D2/	XPR-15/18	BC LIFT HE	AD I	PIN WELDMENT	4	С
12	5570008	HYDRA	JLIC HOSE	ASSEMBL	ΥØ	6.35 x 10833mm SB	1	D
13	5570017	HYDR/	AULIC HOS	SE ASSEM	BLY (	Ø10 x 1219mm SB	1	D
14	5570832	HYDRA	ULIC HOS	e assemb	LYØ	06.35 x 2299mm SB	1	F
15	5595106		Ø2.4 x 1	0109mm :	SAFE	TY CABLE	1	С
16	5595617	(	CABLE ASSEMBLY Ø12 x 11849mm ST		2	D		
17	5540112		SNAP RING; TRUARC 5103-175		4	Α		
18	5716634	D2/10	D2/10AP/XPR MICROSWITCH COVER, PLASTIC		1	В		
19 5746166		DC	DOUBLE THREADED ROD M10 x 1.5 x 295		2	В		
20 5530308			AB 3/4" x 7"			14	-	
21	5520116		14-4 SJO UL 62 CABLE 300vac		1	-		
22	5525150		SPDT MICE	RO SWITCI	1;25	A@125VAC	1	-
23	5550112		FTG NPL -04 NPT x -04 F NPT		2	-		
24	5525112		MICRO SWITCH COVER-5PA2		1	-		
25	5900370	XF	XPR-12CL-18CL INSTALLATION MANUAL		1	-		
26	5701660	12AP/	12AP/D2-12/15/XPR HEIGHT ADAPTER HOLDER		2	В		
27	5701661					GUARD, R.H.	2	Ā
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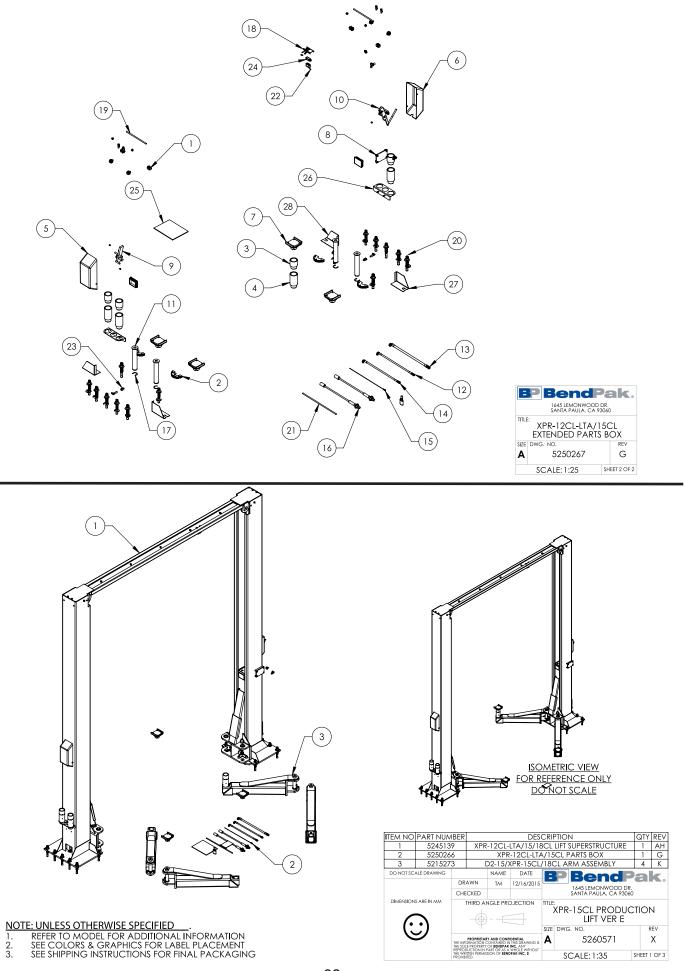
- NOTE: UNLESS OTHERWISE SPECIFIED

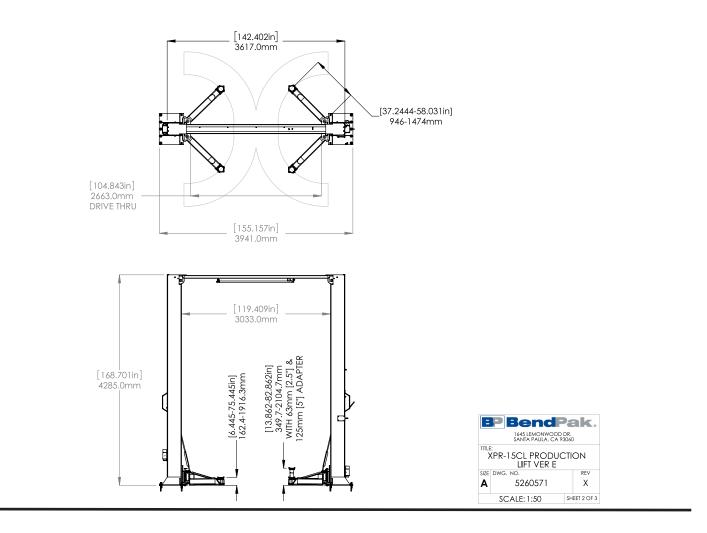
   1.
   REFER TO MODEL FOR ADDITIONAL INFORMATION

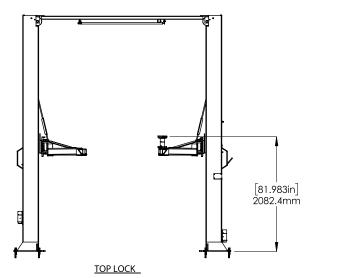
   2.
   SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING

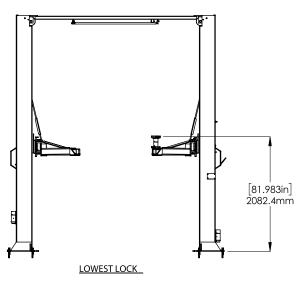
   3.
   FOR 5220116 SPECIFICATIONS REFER TO PART SPECIFICATION FORM

   4.
   (\*) 5520116 QTY FOR REFERENCE ONLY









<b>BP BendPak</b> .						
1645 LEMONWOOD DR. SANTA PAULA, CA 93060						
XPR-15CL PRODUCTION						
SIZE	DWG. NO.		REV			
<b>A</b> 5260571 X						
SCALE: 1:50 SHEET 3 OF 3						

(1) $\bigcirc$ (4)[0 0] 00 3 0 O 2

# WHERE USED D2-15C XPR-15CL XPR-15CL-192 XPR-18CL XPR-18CL-192

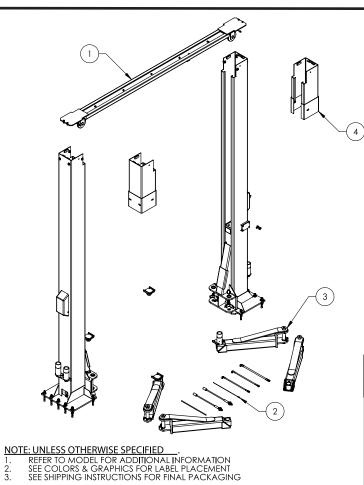
- NOTE: UNLESS OTHERWISE SPECIFIED

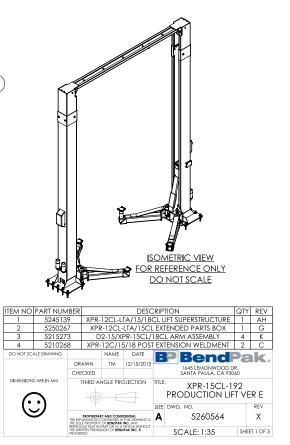
   1.
   REFER TO MODEL FOR ADDITIONAL INFORMATION

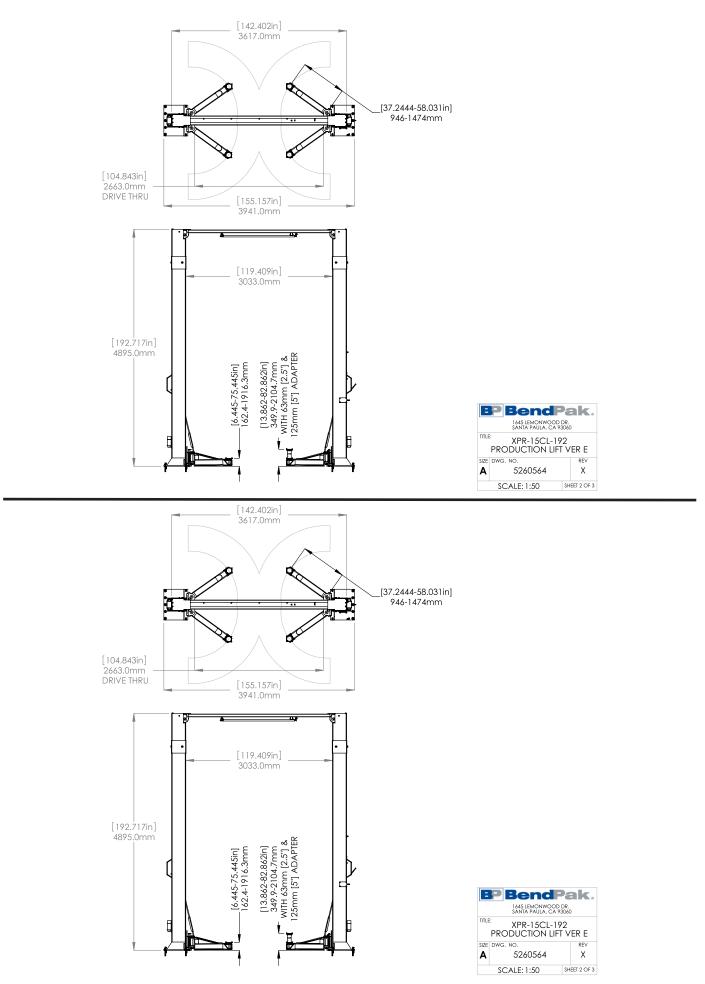
   2.
   SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING

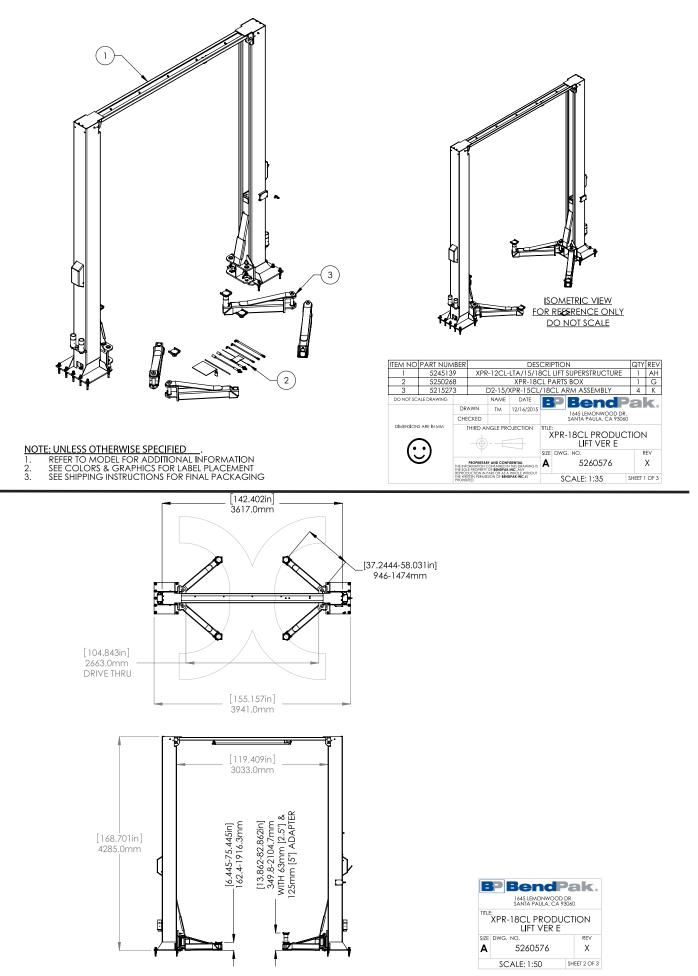
   3.
   ASSEMBLE ITEMS AS SHOWN

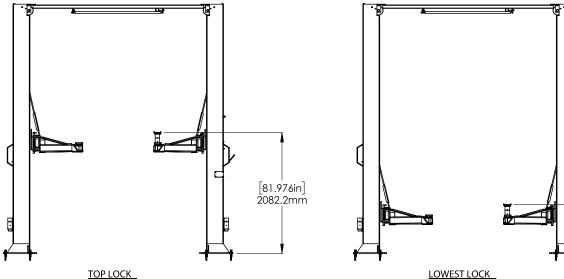
ITEM NO	PART NUMBER			D	escription		QTY	REV
1	5600986			KPR-15/18	SCL	CL ARM WELDMENT		J
2	5545341			WASHE		R M10 x Ø20 FLAT		-
3	5545200			WASH	ER M10 x Ø18 SL		3	-
4	5530302		HH	HB M10 x	< 40 FULLY THREAD	3	-	
DO NOT SCALE DRAWING			NAME	DATE	-	<b>P</b> Bend		
		DRAWN	ML	06/24/2015	-	1645 LEMONWOOD E		
		CHECKED	CA	8/28/2019	SANTA PAULA, CA 93060			
		THIRD ANGLE PROJECTION			TITLE: D2-15/XPR-15CL/18CL ARM ASSEMBLY			
		T T			SIZE	DWG. NO.		REV
		PROPRIETARY AND CONFIDENTIAL THE NFORMATION CONTAINED IN THS DRAWING IS THE SOLE PROPERTY OF BENDARI INC. ANY REFRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITEN PERMISSION OF BENDPAR INC. IS PROHIBIO.			Α	5215273		К
					SCALE: 1:6		SHEET 1 OF 1	







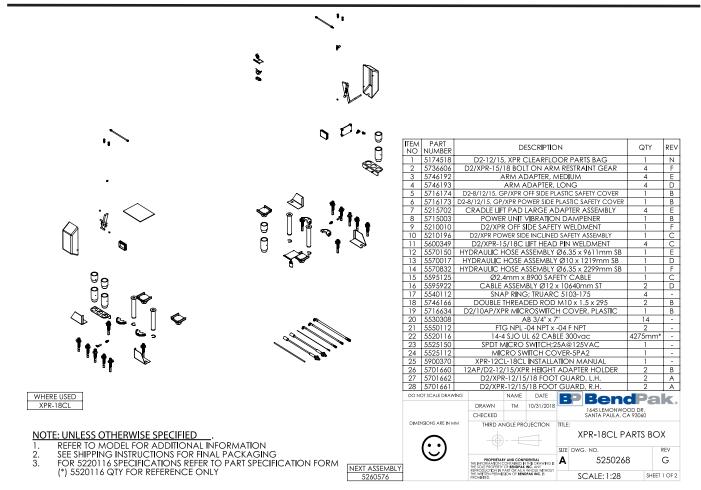


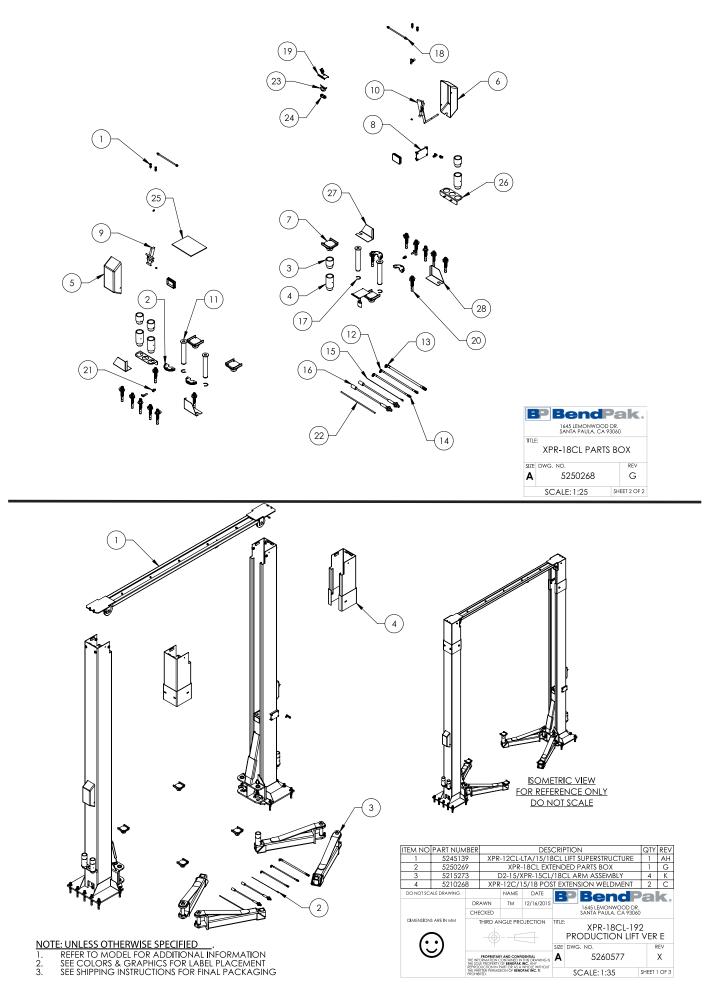


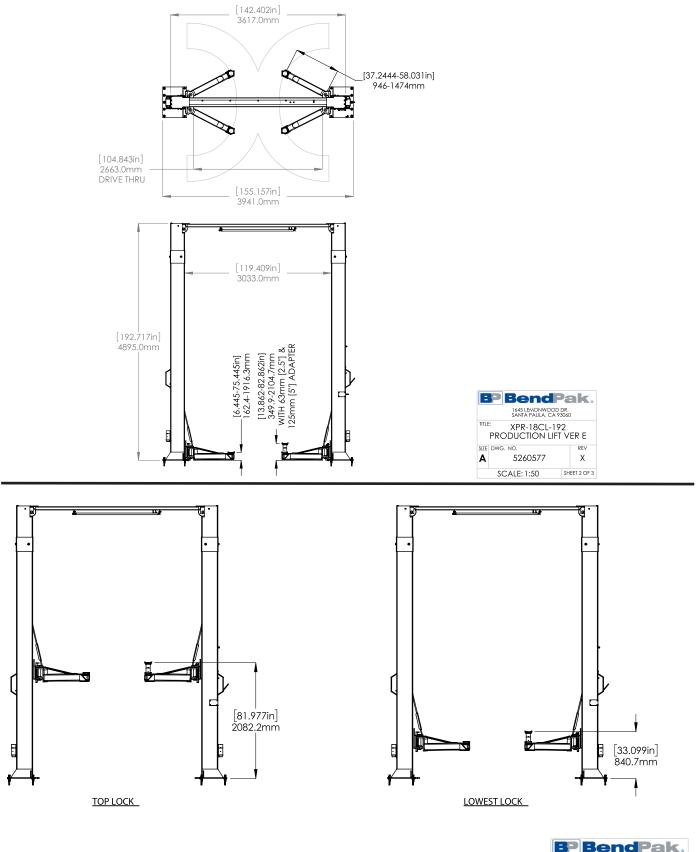


<b>BP BendPak</b> .		
	1645 LEMONWOOD I Santa Paula, ca 93	
XPR-18CL PRODUCTION LIFT VER E		
SIZE	DWG. NO.	REV
A	5260576	X
	SCALE: 1:50	SHEET 3 OF 3

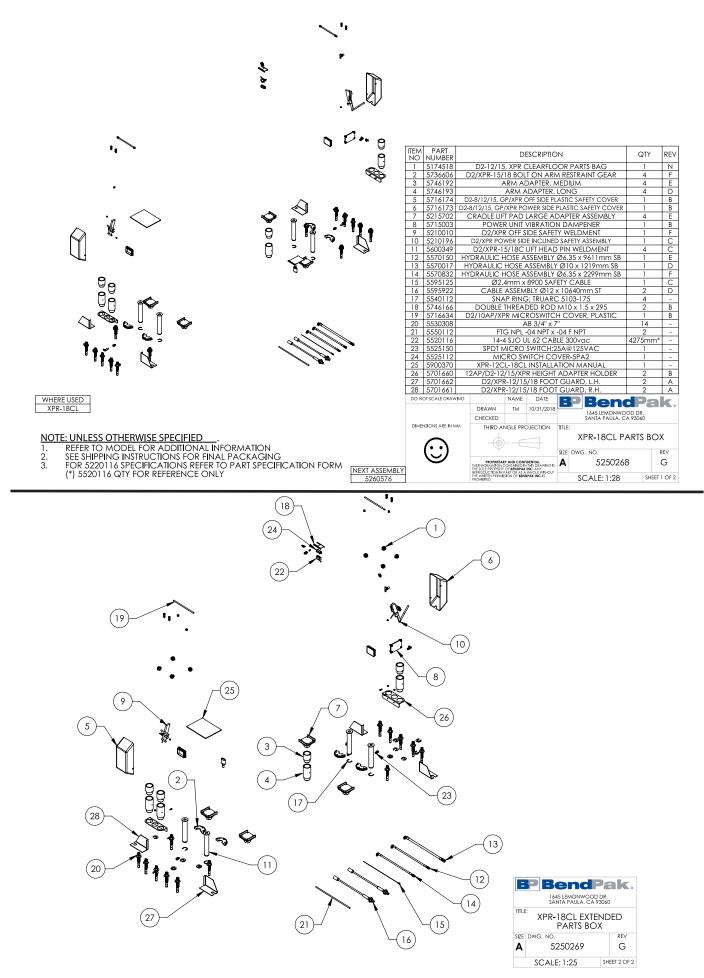
33.098in 840.7mm







=	<b>P</b> Bend	ak.
	1645 LEMONWOOD Santa Paula, ca 9	
TITLE: XPR-18CL-192 PRODUCTION LIFT VER E		
SIZE	DWG. NO.	REV
Α	5260577	Х
	SCALE: 1:50	SHEET 3 OF 3







# **EC Type-Examination Certificate**

(Fm 210-017, Rev. 10) For the requirements of the Machinery Directive 2006/42/EC

For Annex IV machinery

Certificate No.: Date of first issue: Date of last review: Date of next review:	CE-C-20120209-01-11-5D 2014.01.27 2019.01.27 2024.01.26
NAME AND ADDRESS OF THE	Bendpak Inc.
MANUFACTURER:	1645 E. Lemonwood Drive, Santa Paula, CA, United States of America
PRODUCT DESCRIPTION/ TYPE AND MODEL:	Range of 12,000(5443kg 2 post vehicle servicing lift clear floor (top bar) symmetric
	XPR-12CL 169H x 155W x 69 Lift in
	XPR-12CL-192 192H x 155W x 69 Lift in + Extended
	XPR-12CL-LTA 169H x 155W x 69 Lift in
	XPR-12CL-LTA-192 192H x 155W x 69 Lift in + Extended
	Range of 15,000lb (6804kg) 2 post vehicle servicing lift clear floor (top bar) symmetric
	XPR-15CL 169H x 155W x 69 Lift in
	XPR-15CL-192 192H x 155W x 69 Lift in + Extended
APPLICABLE STANDARDS:	EN1493:2010 Vehicle Lifts
	EN 60204-1:2006+A1:2009 Safety of machinery - Electrical equipment of machines - Part1:General requirements
A COPY IS AVAILABLE FROM:	CCQS UK Ltd., 5 Harbour Exhange, London, E14 9GE, UK
RE-ISSUE HISTORY	CE-C-20120209-01-11-5A first issue
	CE-C-20120209-01-11-5B reissued renamed XPR range
	CE-C-20120209-01-11-5C reissued for modified template
	CE-C-20120209-01-11-5D This issue - 5 year review
	Change LWB model number suffix to LTA

The technical file, accompanying documentation and the equipment which they describe have been found to be in compliance with the requirements of the Machinery Directive 2006/42/EC.

The responsible person defined above has responsibility for ensuring that all future serial manufacture of the machinery conforms to the sample submitted for EC type-examination referenced above.

Any changes to the design of the machinery certified here must be advised to CCQS UK Ltd. for re-assessment.

A CE marking should not be fixed to the equipment until the requirements of all relevant directives have been met.

## Approved by: Owen Bian - Office Manager

Date: 2019.01.27

Appointed by UK Government as a Notified Body for CE Marking No. 1105 CCQS UK Ltd., 5 Harbour Exhange, Canary Wharf, London, E14 9GE, UK

Tel: +44 (0) 20 7868 1509 Email info@ccqs.co.uk If in any doubt about the integrity of this certificate, please verify it on our website at http://www.ccqs.co.uk



# **Declaration of Conformity**

### The equipment which accompanies this declaration is in conformity with EU Directive:

2006/42/EC Machinery Directive

#### Manufacturer

BendPak Inc. 1645 Lemonwood Dr Santa Paula Ca, 93060 USA

#### A copy of the Technical file for this equipment is available from: CCQS UK Ltd., Level 7, Westgate House, Westgate Rd., London W5 1YY UK

#### Description of Equipment Two-Column Vehicle Service Lift

XPR-12CL	12K Cap. / Clearfloor / Two-Post Lift	Seria
XPR-12CL-LWB	12K Cap. / Clearfloor / Two-Post Lift	Seria
XPR-12CL-192	12K Cap. / Clearfloor / Two-Post Lift	Seria
XPR-12CL-LWB-192	12K Cap. / Clearfloor / Two-Post Lift	Seria
XPR-15CL	15 Cap. / Clearfloor / Two-Post Lift	Seria
XPR-15CL-192	15 Cap. / Clearfloor / Two-Post Lift	Seria

Serial Numbers 5175405-00000 to 99999-99999-99999 Serial Numbers 5175406-00000 to 99999-99999-99999 Serial Numbers 5175407-00000 to 99999-99999-99999 Serial Numbers 5175415-00000 to 99999-99999-99999 Serial Numbers 5175408-00000 to 99999-99999-99999 Serial Numbers 5175410-00000 to 99999-99999-99999

A sample of this machinery has been presented to Notified Body number 1105.

CCQS UK Ltd., Level 7, Westgate House, Westgate Rd., London W5 1YY UK

Who have issued an EC type-examination certificate number CE-GB-20150427-01-5A dated 2015.12.10.

The equipment in respect of which this declaration is made conforms to the example to which that certificate relates, and that certificate remains valid.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

#### The following harmonised standards have been used: EN1493:2010 Vehicle Lifts

#### Authorised signatory of manufacturer

tran frethe

Signature:

Name of signatory: Jeffrey S. Kritzer

Position in company: Senior Vice President of Marketing and Sales

Place signed: Santa Paula, CA, USA

Date signed: February 17, 2016

MAINTENANCE / INSPECTION RECORDS

MAINTENANCE / INSPECTION RECORDS

MAINTENANCE / INSPECTION RECORDS

MAINTENANCE / INSPECTION RECORDS



1645 Lemonwood Drive Santa Paula, CA 93060 USA bendpak.com

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