

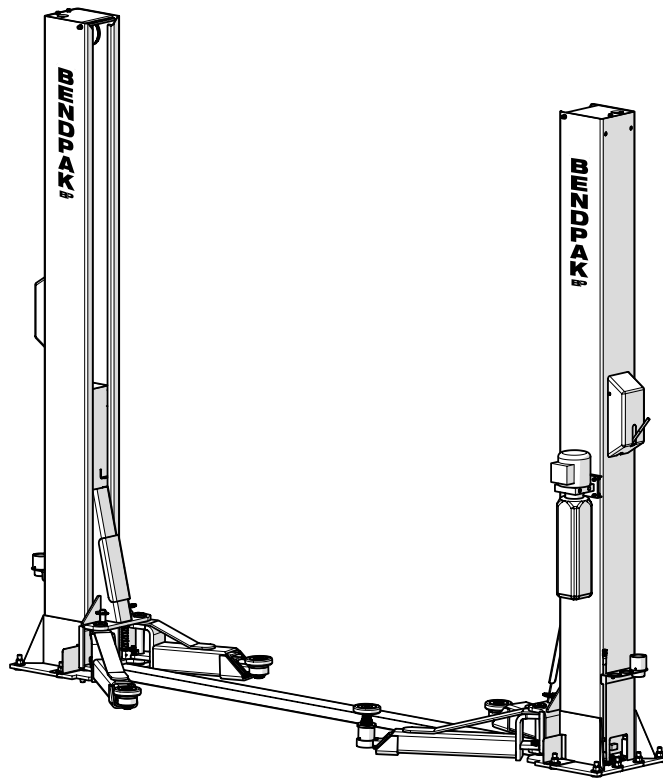
XPR-9 Two-Post Lift Series

Installation and Operation Manual

Manual P/N 5900371 — Manual Revision D1 — March 2023

Models:

- XPR-9TF
- XPR-9SBT



XPR-9TF shown.

Designed and engineered by BendPak Inc. in Southern California, USA. Made in China.

 **DANGER**

IMPORTANT SAFETY INSTRUCTIONS, 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 the manual near the product for future reference. **By proceeding with setup and operation, you agree that you fully understand the contents of this manual and assume full responsibility for product use.**

Manual. XPR-9 Series Two-Post Lifts, *Installation and Operation Manual*, Manual Part Number 5900371, Manual Revision D1, released March 2023.

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Limitations. Every effort has been made to ensure complete and accurate instructions are included in this manual. However, product updates, revisions, and/or changes may have occurred since this manual was published. BendPak reserves the right to change any information in this manual without incurring any obligation for equipment previously or subsequently sold. BendPak is not responsible for typographical errors in this manual. You can always find the latest version of the [manual for your product on the BendPak website](#).

Warranty. The BendPak warranty is more than a commitment to you: it is also a commitment to the value of your new product. Contact your nearest BendPak dealer or visit www.bendpak.com/support/warranty for full warranty details. Go to bendpak.com/support/register-your-product/ and fill out the online form to register your product (be sure to click **Submit**).

Safety. Your Lift was designed and manufactured with safety in mind. Your safety also depends on proper training and thoughtful operation. Do not set up, operate, maintain, or repair the Lift without reading and understanding this manual and the labels on the unit; **do not use your Lift unless you can do so safely!**

Owner Responsibility. In order to maintain your product properly and to ensure operator safety, it is the responsibility of the product owner to read and follow these instructions:

- Follow all installation, operation, and maintenance instructions.
- Make sure product installation conforms to all applicable local, state, and federal codes, rules, and regulations, such as state and federal OSHA regulations and electrical codes.
- Read and follow all safety instructions. Keep them readily available for operators.
- Make sure all operators are properly trained, know how to safely operate the unit, and are properly supervised.
- Do not operate the product until you are certain all parts are in place and operating correctly.
- Carefully inspect the product on a regular basis and perform all maintenance as required.
- Service and maintain the unit only with approved replacement parts.
- Keep the manual with the product and make sure all labels are clean and visible.
- **BendPak** makes no promises, guarantees or assurances that our products meet any state, county, federal or international mandated permit, license, code, standard, certification, or any other mandate other than what is listed or shown on BendPak website(s), or any BendPak online or published catalog. Not all BendPak lift models meet the standards as prescribed by ANSI/ALI ALCTV-(current edition) or ANSI/UL 201. Consult www.autolift.org for a complete list of lift models that meet ANSI/ALI ALCTV-(current edition) or ANSI/UL 201, or contact BendPak via www.bendpak.com/contact/ **Buyer assumes full responsibility for any state, county, federal or international mandated permit, license, code, standard, certification, or any other mandate required related to the installation and/or operation of any BendPak or Autostacker product.** BendPak will not be responsible for any charges, fines, liens, or other levies imposed on the Buyer related to any special or regional structural, seismic or any other building code and/or codes such as the Uniform Building Code (UBC), International Building Code (IBC), or any other state, county, federal or international mandated permit, license, code, standard, certification, or other mandate, law, rule, regulation or directive by any other agency, government, administrations, or corporations whether state, county, federal, or international mandated.
- **Only use the Lift if it can be used safely!**

Unit Information. Enter the Model Number, Serial Number, and the Date of Manufacture from the ID label on your unit. This information is required for part or warranty issues.

Model: _____

Serial: _____

Date of Manufacture: _____

BP BendPak Santa Paula, CA USA www.bendpak.com	
MODEL NUMBER	
DESCRIPTION	
LIFT CAPACITY	DATE OF MFG.
VOLTAGE	SERIAL NUMBER
<input type="checkbox"/> 110-240V, 50-60 Hz, 1 Ph	UPC
<input type="checkbox"/> 208-240V, 50-60 Hz, 1 Ph	
<input type="checkbox"/> 380-415V, 50-60 Hz, 3 Ph	
<input type="checkbox"/> 208-440V, 50-60 Hz, 3 Ph	
DANGER! Disconnect Power Before Servicing WARRANTY VOID IF DATA PLATE IS REMOVED PN 5905950	
CE EAC	

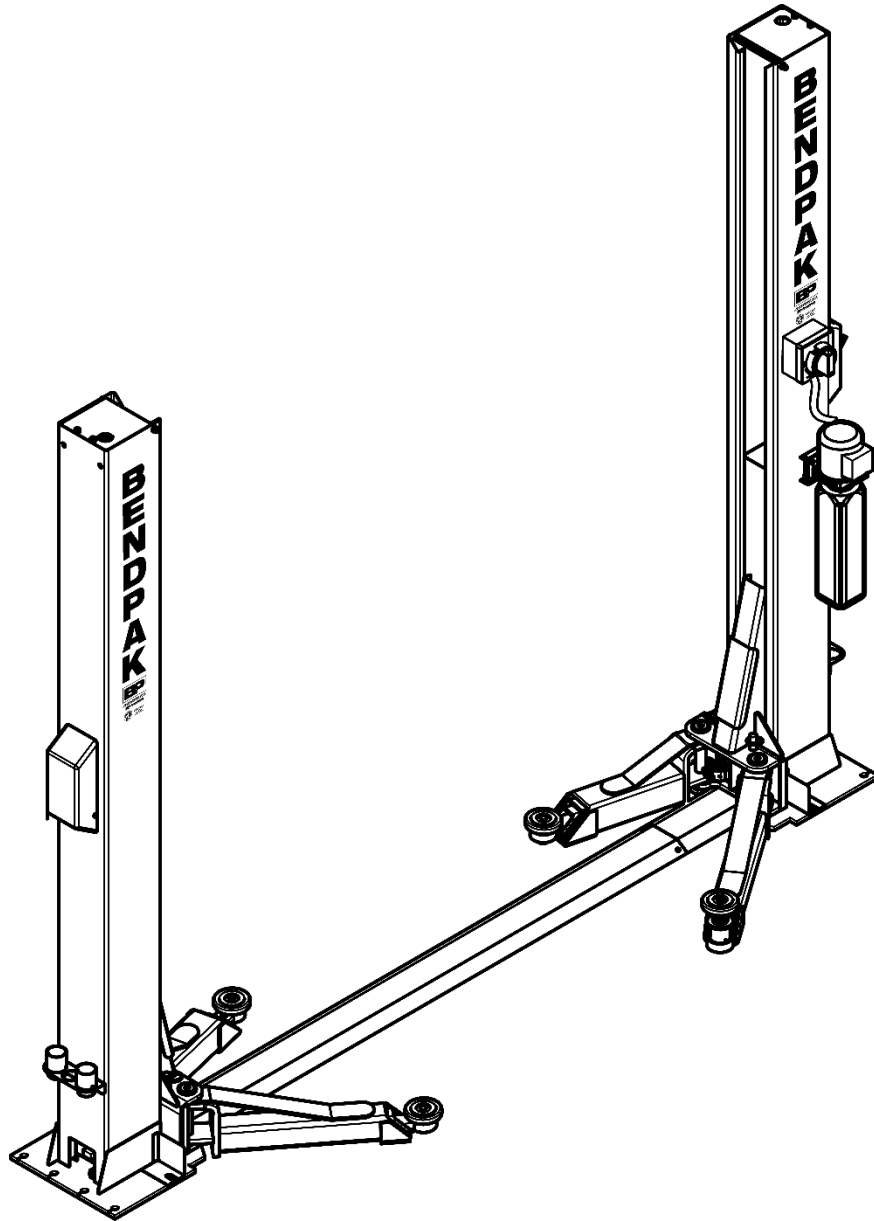


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Introduction

This manual describes the following Two-Post Lift models:

- **XPR-9TF.**
- **XPR-9SBT.**

Both models are similar, so if no distinction is made, then the information applies to both models. If information applies to only one model, that distinction is mentioned in the text.

More information about the full line of BendPak products is available at bendpak.com.

This manual is mandatory reading for all users of XPR-9 Series Lifts, including anyone who installs, operates, maintains, or repairs them. Keep this manual on or near the equipment at all times.

⚠ DANGER Be very careful when installing, operating, maintaining, or repairing this equipment; failure to do so could result in property damage, product damage, injury, or (in very rare cases) death. Make sure only authorized personnel operate this equipment. All repairs must be performed by an authorized technician. Do not make modifications to the unit; this voids the warranty and increases the chances of injury or property damage. Make sure to read and follow the instructions on the labels on the unit.

Technical support and service is available from your dealer, on the Web at bendpak.com/support, by email at support@bendpak.com, or by phone at **(800) 253-2363**, extension 196.

You may also contact BendPak for parts replacement information (please have the model and serial number of your unit available) at **(800) 253-2363**, extension 191.

Shipping Information

Your equipment was carefully checked before shipping. Nevertheless, you should thoroughly inspect the shipment **before** you sign to acknowledge that you received it.


When you sign the bill of lading, it tells the carrier that the items on the invoice were received in good condition. **Do not sign the bill of lading until after you have inspected the shipment.** If any of the items listed on the bill of lading are missing or damaged, do not accept the shipment until the carrier makes a notation on the bill of lading that lists the missing or damaged goods.

If you discover missing or damaged goods **after** you receive the shipment and have signed the bill of lading, notify the carrier at once and request the carrier to make an inspection. If the carrier will not make an inspection, 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 signed bill of lading. If this happens to you, file a 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 us responsible for collection of claims or replacement of lost or damaged materials.

Safety Considerations

Read this entire manual carefully before using your new product. Do not install or operate the product until you are familiar with all operating instructions and warnings. Refer to ANSI/ALI ALIS Standard *Safety Requirements for Installation and Service of Automotive Lifts* for more information about safely installing your Lift.

 **WARNING** **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 BendPak's instructions. For more information go to www.P65Warnings.ca.gov.

IMPORTANT SAFETY INSTRUCTIONS!

SAVE THESE INSTRUCTIONS!





1. Read all instructions.
2. Care must be taken as burns can occur from touching hot parts.
3. Do not operate equipment with a damaged cord or if the equipment has been dropped or damaged – until it has been examined by a qualified service person.
4. Do not let a cord hang over the edge of a table, bench, or counter or come in contact with hot manifolds or moving fan blades.
5. If an extension cord is necessary, a cord with a current rating equal to or more than that of the equipment should be used. Cords with a current rating less than the equipment may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.

-
6. Always unplug the equipment from the electrical outlet when not in use. Never use the cord to pull the plug from the outlet. Grasp the plug and pull to disconnect.
 7. Let the equipment cool completely before putting away. Loop cord loosely around equipment when storing.
 8. To reduce the risk of fire, do not operate in the vicinity of open containers of flammable liquids (gasoline).
 9. Adequate ventilation should be provided when working on operating internal combustion engines.
 10. Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
 11. To reduce the risk of electric shock, do not use on wet surfaces or expose to rain.
 12. Use only as described in this manual. Use only BendPak recommended attachments.
 13. ALWAYS WEAR SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses.
 14. To reduce the risk of injury, close supervision is necessary when this product will be used around children.
 15. To reduce the risk of injury, **never** attempt to lift more than the rated capacity. Refer to loading instructions.
 16. The Lift uses electrical energy; if your organization has Lockout/Tagout policies, make sure to implement them after connecting the Lift to a power source.
 17. Refer to markings for proper load on electrical receptacles.
 18. Only operate your Lift between temperatures of +41°F to +104°F (+5°C to +40°C).
 19. The Lift should **only** be operated by authorized personnel. Keep children and untrained personnel away from the Lift.
 20. Do not make any modifications to the Lift; this voids the warranty and increases the chances of injury or property damage.
 21. Do not use the Lift while tired or under the influence of drugs, alcohol, or medication.
 22. Consider the work environment. Keep the work area clean. Cluttered work areas invite injuries. Keep areas well lit.
 23. **Always** make sure the Lift is secured on Safety Locks before attempting to work on or near a Vehicle.
 24. Make a thorough inspection of the product at least once a year. Replace any damaged or severely worn parts, decals, or warning labels. Replace worn or damaged parts with BendPak or BendPak approved parts and assemblies only.
 25. BendPak recommends referring to the ANSI/ALI ALIS Standard *Safety Requirements for Installation and Service* for more information about safely installing, using, and servicing your Lift.
 26. XPR-9 Series Lifts are Two-Post Service Lifts. **Use them only for their intended purpose.**
 27. You **must** wear OSHA-approved (publication 3151) personal protective equipment at all times when installing, using, maintaining, or repairing the Lift. Leather gloves, steel-toed work boots, eye protection, back belts, and hearing protection are **mandatory**.
 28. Keep loads balanced on the Lift Arms. Clear the area immediately if a Vehicle is in danger of falling off the Lift. Do not make any modifications to the Lift.

-
29. Modifications void the warranty and increase the chances of injury or property damage. *Do not modify any safety-related features in any way.*
 30. Make sure all operators read and understand this Installation and Operation Manual. *Keep the manual near the Lift at all times.*
 31. While handling a Hydraulic Cylinder or a Hydraulic Hose, **always** wear gloves. In rare cases, a needle-like stream of hydraulic fluid (even at low pressure) can penetrate fingers, hands, or arms; such a puncture can feel like a bite, electric shock, or a prick. While it may seem like a minor issue, any amount of Hydraulic Fluid injected into the human body is a serious issue. Anyone suffering such a puncture wound should be **immediately** taken to a hospital emergency room to determine the extent of the injury. Explain the circumstances of the injury to the attending physician, including what kind of Hydraulic Fluid was involved. Do not assume a puncture wound that could have been caused by Hydraulic Fluid is a minor issue; it could be life threatening.
 32. Make an inspection of the Lift **before** using it. Check for damaged, worn, or missing parts. Do not use it if you find any of these issues. Instead, take it out of service, then contact an authorized repair facility, your dealer, or BendPak at **(877) 432-6627** or support@BendPak.com.

Symbols

Following are the symbols used in this manual:

-  **DANGER** Calls attention to an immediate hazard that **will** result in injury or death.
-  **WARNING** Calls attention to a hazard or unsafe practice that **could** result in injury or death.
-  **CAUTION** Calls attention to a hazard or unsafe practice that could result in minor personal injury, product, or property damage.
- NOTICE** Calls attention to a situation that, if not avoided, could result in product or property damage.
-  **Tip** Calls attention to information that can help you use your product better.

Liability Information

BendPak Inc. assumes **no** liability for damages resulting from:

- Use of the product for purposes other than those described in this manual.
- Modifications to the equipment without prior, written permission from BendPak Inc.
- Injury or death caused by modifying, disabling, overriding, or removing safety features.
- Damage to the equipment from external influences.
- Incorrect operation of the equipment.

Frequently Asked Questions

Question: What kinds of Vehicles can I raise on my XPR-9 Series Lift?

Answer: Cars, trucks, SUVs, or similar; up to 9,000 lbs. (4,082 kg) each.

Q: How long will it take to raise or lower my Vehicle?

A: Anywhere from 30 to 45 seconds, depending on how high you raise it.

Q: Does the Lift have to be anchored in place?

A: Yes. Two-Post Lifts **must** be anchored. Your Lift comes with high-quality Anchor Bolts; use only the Anchor Bolts that came with your Lift.

Q: How thick does my Concrete have to be?

A: 4.25 inches thick, 3,000 PSI, cured for a minimum of 28 days. Do not install the Lift on cracked or defective Concrete. **Do not install on asphalt or any surface other than Concrete.**

Q: Can I install my Lift outside?

A: No. All XPR-9 Series Lifts are approved for indoor installation and use only. **Outdoor installation is prohibited.**

Q: How many Safety Lock positions does my Lift have?

A: The XPR-9TF has 13 Safety Lock Positions; the XPR-9SBT has 10 Safety Lock positions.

Q: Does the Lift have a Front and Rear?

A: Yes and no. Because you can drive onto a Two-Post Lift from either opening, there is technically no Front or Rear. However, most garages have an Approach side and a Wall side, so in that case, the Wall side is the Front and the Approach side is the Rear.

Q: How long can I leave a Vehicle raised up on my Lift?

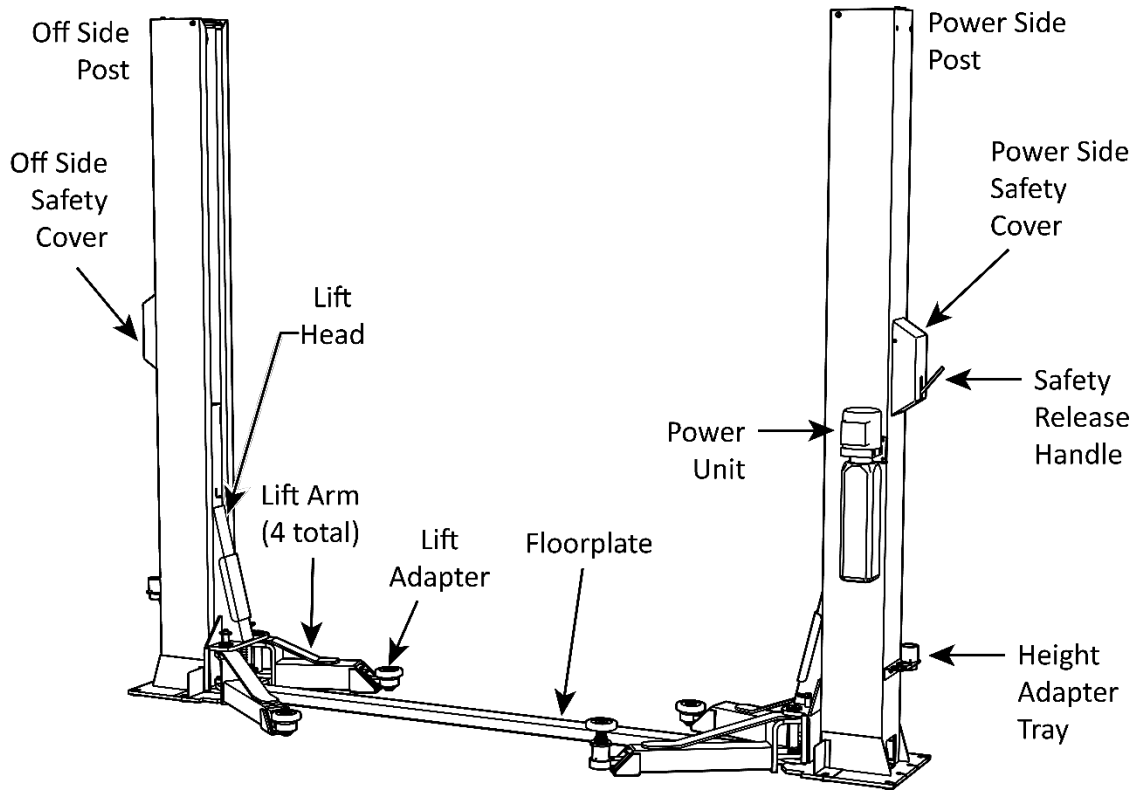
A: For a long time, as long as you leave the Lift *engaged* on its Safety Locks. Once the Lift is engaged on its Safety Locks, gravity holds it in position. **Only leave your Lift either on the ground (fully lowered) or engaged on its Safety Locks.**

Q: How do I know where to put the Adapters when I want to raise a Vehicle?

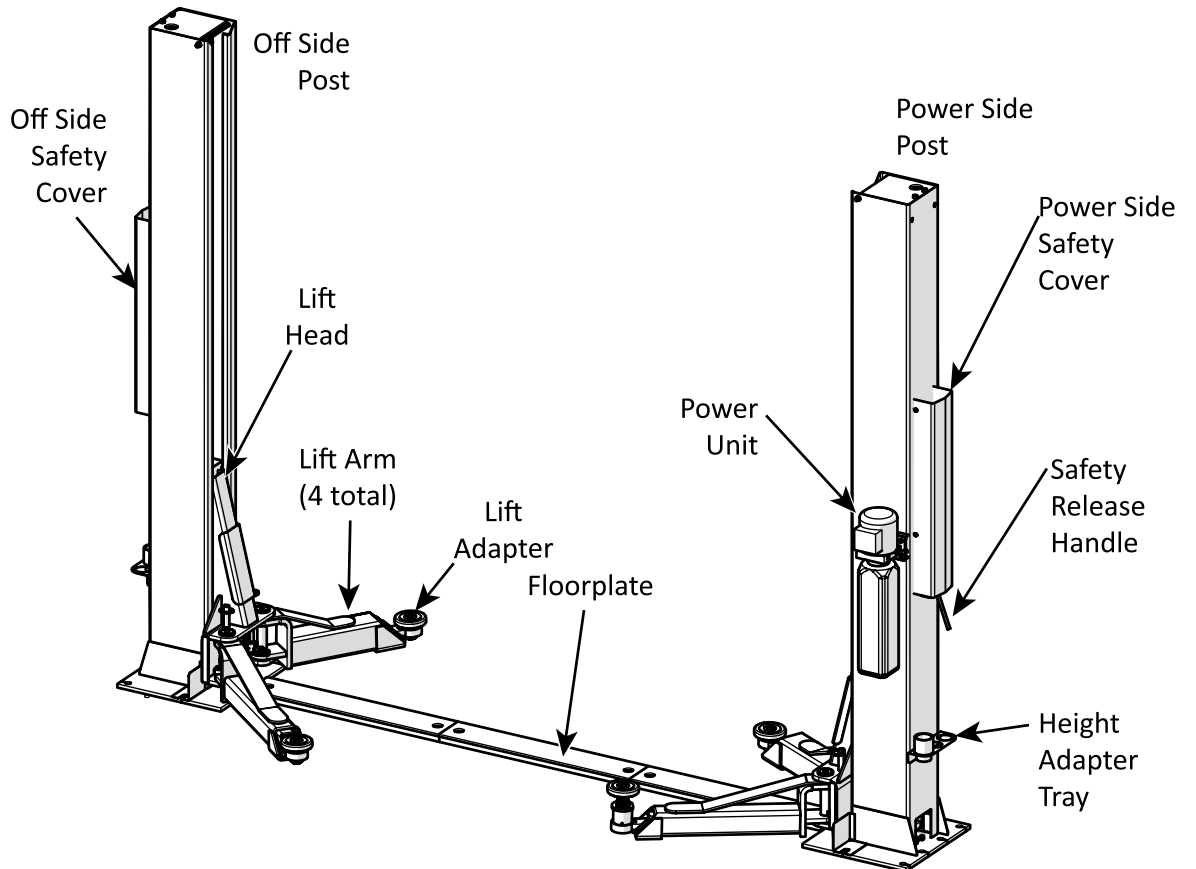
A: The Vehicle needs to be balanced, so you must put the Adapters (sometimes called Pads) so that they contact the manufacturer's recommended Lifting Points. **If you do not know where the manufacturer's recommended Lifting Points are on a Vehicle, you must find out before you raise it.** Your Lift came with guides that will help: *Vehicle Lifting Points for Frame Engaging Lifts* shows the Lifting Points for hundreds of Vehicles. *Lifting It Right* includes information about how to raise Vehicles correctly.

Components

XPR-9TF



XPR-9SBT

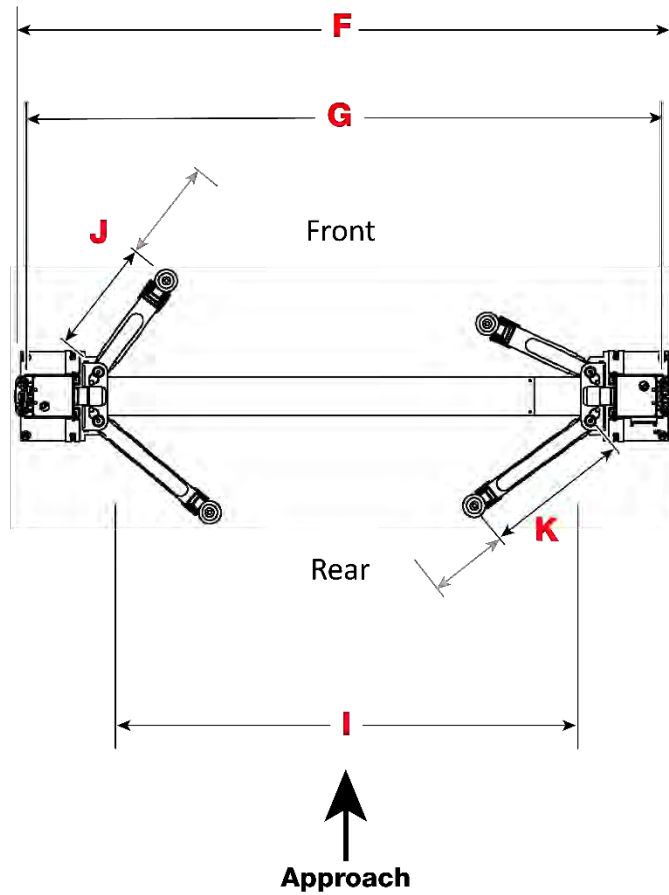
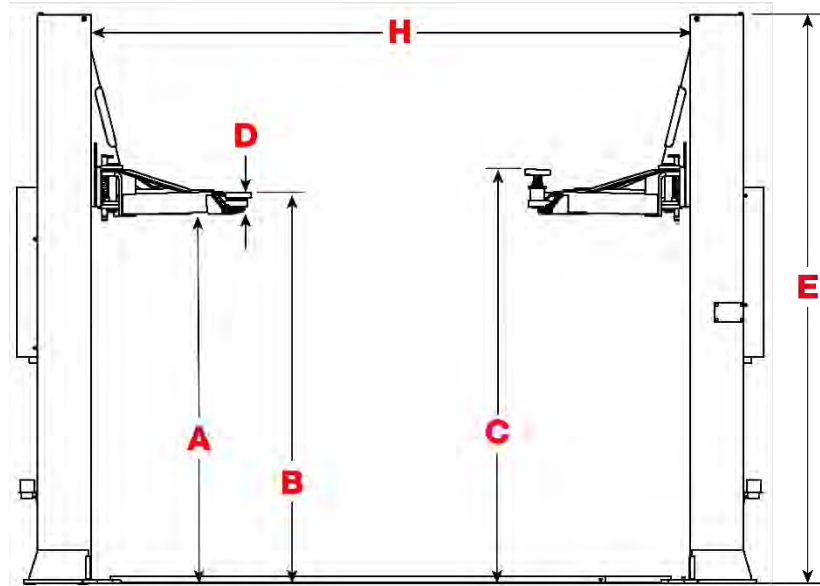


XPR-9 Series Lift components include:

- **Power Side Post:** The Powerside Post holds the Power Unit, the Safety Lock Release Handle, and the Lowering Handle (which is on the Power Unit).
- **Off Side Post:** The other Post.
- **Power Unit:** Provides Hydraulic Fluid to the Lift and connects to an appropriate power source. Includes the Up Button, the Lowering Handle, and the Hydraulic Fluid reservoir.
- **Up Button:** Press and hold to raise the Vehicle on the Lift.
- **Safety Lock Release Handle:** Located on the Power Post above the Power Unit, it disengages the Safety Locks so you can lower the Lift.
- **Power Disconnect Switch:** *Not supplied.* Immediately interrupts main electrical power to the Lift. Used for electrical circuit faults, emergency situations, or when the Lift is undergoing service or maintenance.
- **Thermal Disconnect Switch:** *Not supplied.* Automatically shuts down the equipment in the event of an overload or an overheated motor. This equipment is not included with the Lift, and must be installed a licensed, certified Electrician.
- **Safety Covers:** Cover the Safety Lock Mechanism on the Posts.
- **Floor Plates:** Cover the Hydraulic Hoses, Equalizing Cables, and Safety Cable being routed to each Post.
- **Lift Heads:** Sometimes called Carriages. Lift Heads move up and down in the Posts. They connect to the Lift Arms, so when the Lift Heads move up, the Lift Arms also move up, thus raising any Vehicle on the Lift Arms.
- **Lift Arms:** Extendable steel arms that attach to the Lift Heads. Adapters (also called Pads) attach at the end of each Lift Arm; they contact the Lifting Points on the underside of the Vehicle.
- **Adapters:** Pads that contact the Lifting Points on the underside of the Vehicles you raise. Four Screw Lift Adapters are included with your Lift, as are a set of four Auxiliary Adapters that can be used with the Screw Lift Adapters to add an additional 2.5 inches of height (to make better contact with the Lifting Points on some Vehicles). Frame Cradle Pads, which are well-suited for raising and holding trucks and SUVs (body-on-frame style), are available separately.
- **Height Adapter Trays:** Attach to the bottom of the Posts, used for holding the Adapters when not in use.
- **Safety Locks:** Hold the Lift Heads up when engaged. Multiple Safety Lock heights let you select the best one for your needs. Once engaged on its Safety Locks, the Lift Heads stay up, even if the Lift loses power. Only leave your Lift fully lowered or engaged on Safety Locks.

Safety Locks are hidden by the Posts, but you can hear them as the Lift rises. Refer to [About Safety Locks](#) for more information.
- **Equalizing Cables:** Two Cables that keep the Lift Heads synchronized. You do not want one Lift Head lowering or raising faster than the other Lift Head; the Equalizing Cables keep them synchronized. The two Equalizing Cables are the same length.

Specifications



Model	XPR-9SBT	XPR-9TF
Lifting Capacity	9,000 lbs. / 4,082 kg	
Maximum Capacity – Front Axle	4,500 / 2,041 kg	
Maximum Capacity – Rear Axle	4,500 / 2,041 kg	
A – Rise	75.25 in. / 1,914.5 mm	69 in. / 1,753 mm
B – Lifting Height w/Pad*	77.207 in. / 1,961 mm	73.75 in. / 1,870 mm
C - Maximum Lifting Height*	83.25 in. / 2,117 mm	78.25 in. / 1,987 mm
D – Minimum Height w/ Pad	4.75 in. / 118 mm	4.75 in. / 118 mm
E – Height Overall	112.375 in. / 2,854 mm	123.25 in. / 3,128 mm
F – Width Overall	145 in. / 3,683 mm (Fixed)	132 in. – 145 in. / 3,353 – 3,683 mm
G – Outside Posts	139.75 in. / 3,549 mm	124.75 in. – 137.75 in. / 3,169 – 3,499 mm
H – Inside Posts (Narrow)	118.5 in. / 3,009 mm	103.5 in. / 2,629 mm
H – Inside Posts (Wide)		116.5 in. / 2,959 mm
I – Drive-Thru Width (Narrow)	106 in. / 2,694 mm	91 in. / 2,311 mm
I – Drive-Thru Width (Wide)		104 in. / 2,642 mm
J – Front Arm Reach (Min)	25.5 in. / 646 mm	25.5 in. / 646 mm
J – Front Arm Reach (Max)	49.5 in. / 1,255 mm	49.5 in. / 1,255 mm
K – Rear Arm Reach (Min)	32.25 in. / 821mm	32.25 in. / 821mm
K – Rear Arm Reach (Max)	52.5 in. / 1,331 mm	52.5 in. / 1,331 mm
Floorplate Dimensions	H: 1.375 in. / 35 mm W: 6 in. / 150 mm	H: 1.5 in. / 37 mm W: 8.5 in. / 216 mm
Safety Lock Positions	10	13
Standard Motor**	220 VAC, 60 Hz, 1 Phase	
Time to Full Rise	≈45 seconds	
Sound	<43dB	

* *Lifting Height w/Pad* is maximum lifting height with Pads at lowest height, no adapter. *Maximum Lifting Height* is maximum lifting height with Pads at top height and with the 2.5 in. / 63 mm adapter.

** *Special voltages available upon request.*

Specifications subject to change without notice.

Installation Checklist

Following are the steps needed to install an XPR-9 Series Lift; perform them in this order.


- 1. Review the Safety Rules and information.
- 2. Plan for Electrical work.
- 3. Make sure you have the necessary Tools.
- 4. Review the Installation Orientation.
- 5. Review Clearances around and above the Lift.
- 6. Select the Installation Location.
- 7. Put Equalizing Cables into position in the Lift Posts.
- 8. Read about Hydraulic Contamination.
- 9. Read about Thread Sealant.
- 10. Put the Hydraulic Hoses into position in the Lift Posts.
- 11. Create Chalk Line Guides for the Posts.
- 12. Install the Equalizing Cables.
- 13. Install Cylinder Chain and Roller.
- 14. Anchoring the Posts and Install the Left and Right Foot Guards.
- 15. Install the Safety Assemblies and Safety Lock Cable.
- 16. Install and Connect the Hydraulic Hoses.
- 17. Mount the Power Unit (*do not connect it to power yet*).
- 18. Learn about Arm Restraint Gears.
- 19. Install the Lift Arms.
- 20. Contact the Electrician.
- 21. Connect the Power Unit (**Electrician required**).
- 22. Install the Power Disconnect Switch and Thermal Disconnect Switch (**Electrician required**).
- 23. Perform final Leveling.
- 24. Install the Safety Covers.
- 25. Lubricate the Lift.
- 26. Perform an Operational Test.
- 27. Review the final Checklist.
- 28. Leave the Manual with the Owner/Operator.

Installation


The installation process includes multiple steps. Perform them in the order listed.

Reviewing the Safety Rules

When installing a Lift, your safety depends on proper training and thoughtful operation.


 **WARNING** Do not install this equipment unless you have automotive lift installation training. Always use proper lifting tools, such as a Forklift or Shop Crane, to raise heavy components. Do not install this equipment without reading and understanding this Manual and the Labels on the unit.

Only fully trained personnel should be involved in installing this equipment. Pay attention at all times. Use appropriate tools and lifting equipment. Stay clear of moving parts.

 **WARNING** You must wear appropriate protective equipment at all times during installation: leather gloves, steel-toed work boots, eye protection, back belts, and hearing protection.

Preparing for Electrical Work

You will need to have a licensed, certified Electrician available at some point during the installation.

 **DANGER** All wiring **must** be performed by a licensed, certified Electrician. Verify all electrical work conforms to applicable local, state, and federal codes, ruled, and regulations, such as state and federal OSHA regulations and electrical codes.

Notify your Electrician in advance so they come prepared with the items required to connect to the facility's power system or an appropriate power cord with plug for connecting to an appropriate power source, a Power Disconnect Switch, and a Thermal Disconnect Switch. These items are *not* supplied with the Lift.

The Electrician needs to:

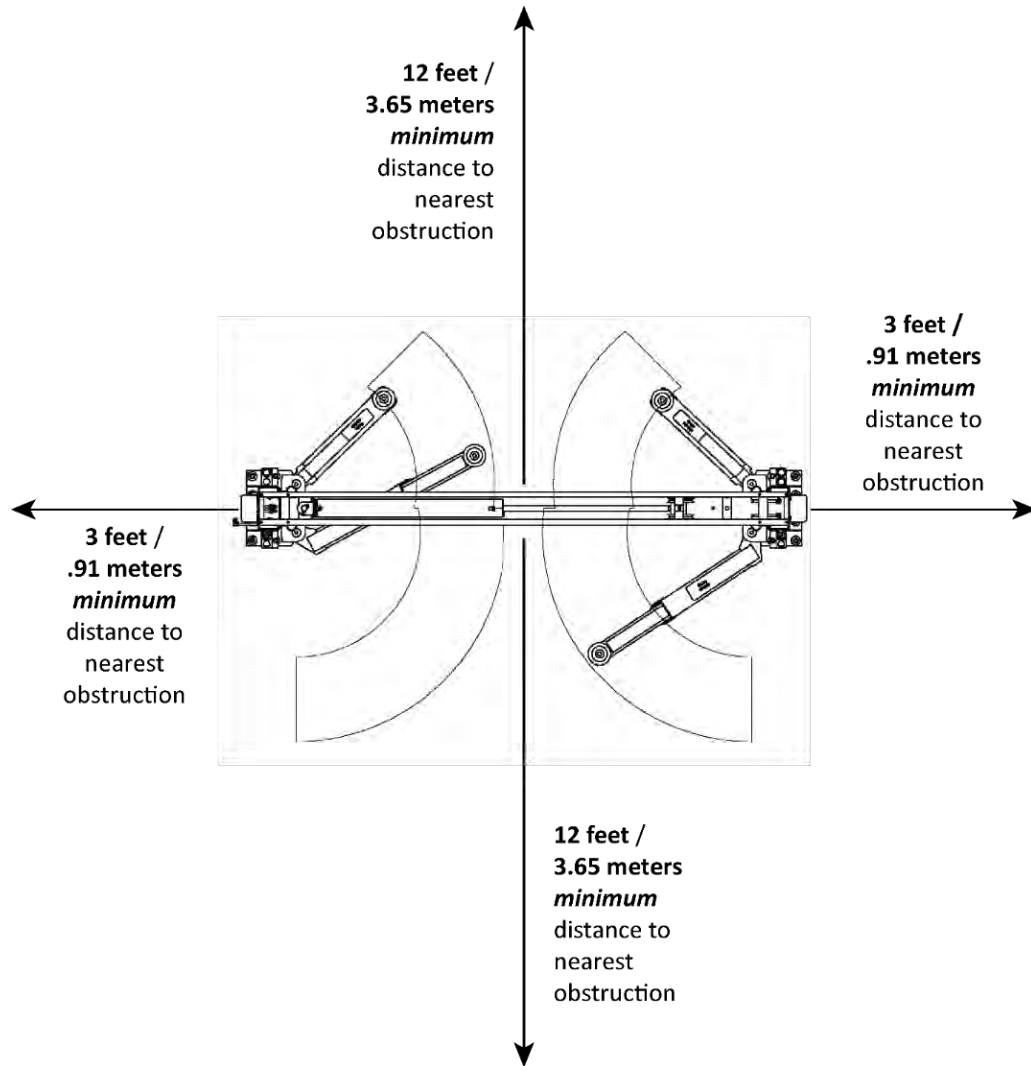
- **Connect to power.** The Power Unit comes with a pigtail for wiring to a power source. Have your Electrician connect a power cord with plug to the electrical box on the Lift (for connection to a power outlet) or have them wire it directly into the electrical system at the Lift location.

Note that *installing* the Power Unit and *connecting* the Power Unit to a power source are separate procedures and are done at different times in the installation process. You do **not** need an Electrician to *install* the Power Unit, but an Electrician is **required** to *connect* the Power Unit to the power source.

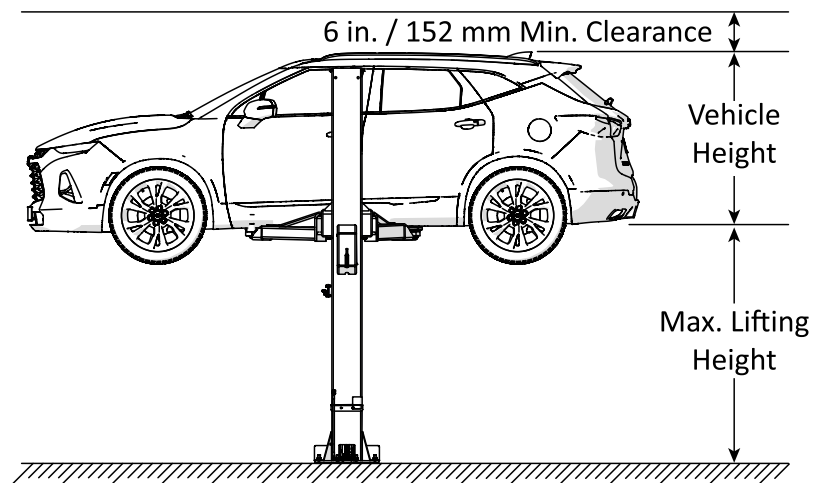
- **Install a Power Disconnect Switch.** A Power Disconnect Switch is used to shut down the Lift in the event of an electrical circuit fault, emergency situation, or when the Lift is being serviced. Refer to [Installing a Power Disconnect Switch](#) for more information.
- **Install a Thermal Disconnect Switch.** A Thermal Disconnect Switch automatically shuts down the equipment in the event of an overload or an overheated motor. Refer to [Installing a Thermal Disconnect Switch](#) for more information.

Checking Clearances

For safety purposes, clear space *around and above* the Lift is **required**. Drawing is a top view. Not to scale.



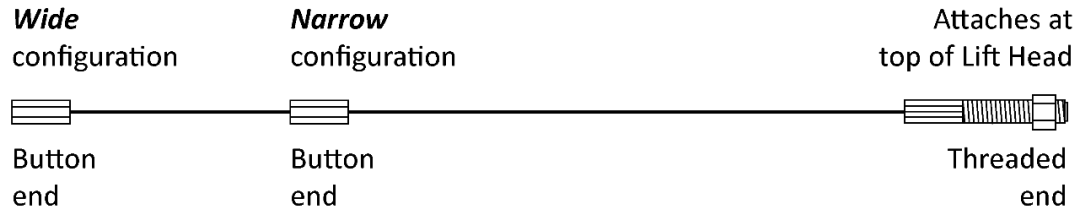
Additional distance is required for Vehicles to be driven on to and off of the Lift.



Choosing a Wide or Narrow Configuration XPR-9TF Only

The XPR-9TF may be installed in a Wide or Narrow Configuration:

- **Wide Configuration.** The Posts are further apart, which means you can raise wider Vehicles on the Lift. This is usually the best choice **if** your Lift location is wide enough to support it. When installing the Equalizing Cables, use the Button End at the very end of the cable.



- **Narrow Configuration.** The Posts are closer together. This is usually the best choice for narrower garages, as it uses less width. When you are installing the Equalizing Cables, use the Button End **away** from the end of the cable.
- **Routing the Equalizing Cables.** The Equalizing Cables come with two Button ends, one for the Wide Configuration and one for the Narrow Configuration. *You need to know which Button end to use when you put the Equalizing Cables into position.*
- **Creating the Chalk Line Guides.** You use the Width Overall setting (found in [Specifications](#)) to create the Chalk Line Guides, so you know how far apart to put your Posts. There are two Width Overall settings, one for the Wide Configuration and one for the Narrow Configuration. You need to know which one to use when you are creating your Chalk Line Guides.

If you are installing a Lift and do not yet know if it is going to be a Wide or a Narrow Configuration, you need to **figure it out now**, before you go any further in the installation process.

Gathering Your Tools


You may need some or all of the following tools:

- Rotary hammer drill (or similar)
- 3/4 inch carbide bit (conforming to ANSI B212.15)
- Hammer
- Four-foot level
- Open-end wrench set, SAE, and metric
- Socket and ratchet set, SAE, and metric
- Hex key wrench set
- Crescent and pipe wrenches
- Torque wrench
- Crowbar
- Chalk line
- Medium-sized flat screwdriver
- Tape measure, 25 feet or more
- Needle-nose pliers
- Forklift or Shop Crane
- Two 12-foot ladders
- Two sawhorses


Selecting a Location

When selecting the location for your Lift, consider:


- **Architectural plans.** Consult the architectural plans for the desired location. Make sure there are no contradictions between what you want to do and what the plans show.
- **Available space.** Make sure there is enough space for the Lift: front, back, sides, and **above**. Refer to **Specifications** for exact measurements.
- **Overhead obstructions.** Check for overhead obstructions such as building supports, heaters, lights, electrical lines, low ceilings, and so on.
- **Power.** You need an appropriate power source for the Lift's Power Unit.
- **Outdoor installations.** Your Lift is approved for **indoor installation and use only**. *Outdoor installation is prohibited.*
- Do **not** install the Lift on any surface other than Concrete conforming to the minimum compressive strength, aging, reinforcement, and thickness stated in these requirements.
- **Never** install the Lift over an expansion joint.
- All Anchors **must** be a minimum of 6 in. (152 mm) away from any expansion seams, control joints or other inconsistencies in the Concrete.
- **Never** install the Lift on hand-mixed Concrete.
- Do **not** install the Lift on a secondary floor level or on any ground floor with a basement beneath without written authorization from the building Architect and prior approval of BendPak Inc.
- **Never** drill or cut into a post tensioned slab. Seek qualified personnel to identify cable locations prior to cutting or drilling

 **WARNING** Installing your Lift on a surface with more than three degrees of slope could lead to injury or even death. Only install your Lift on a level floor (defined as no more than 3/8 of an inch difference over the installation area). If your floor is not level, consider making the floor level or using a different location.

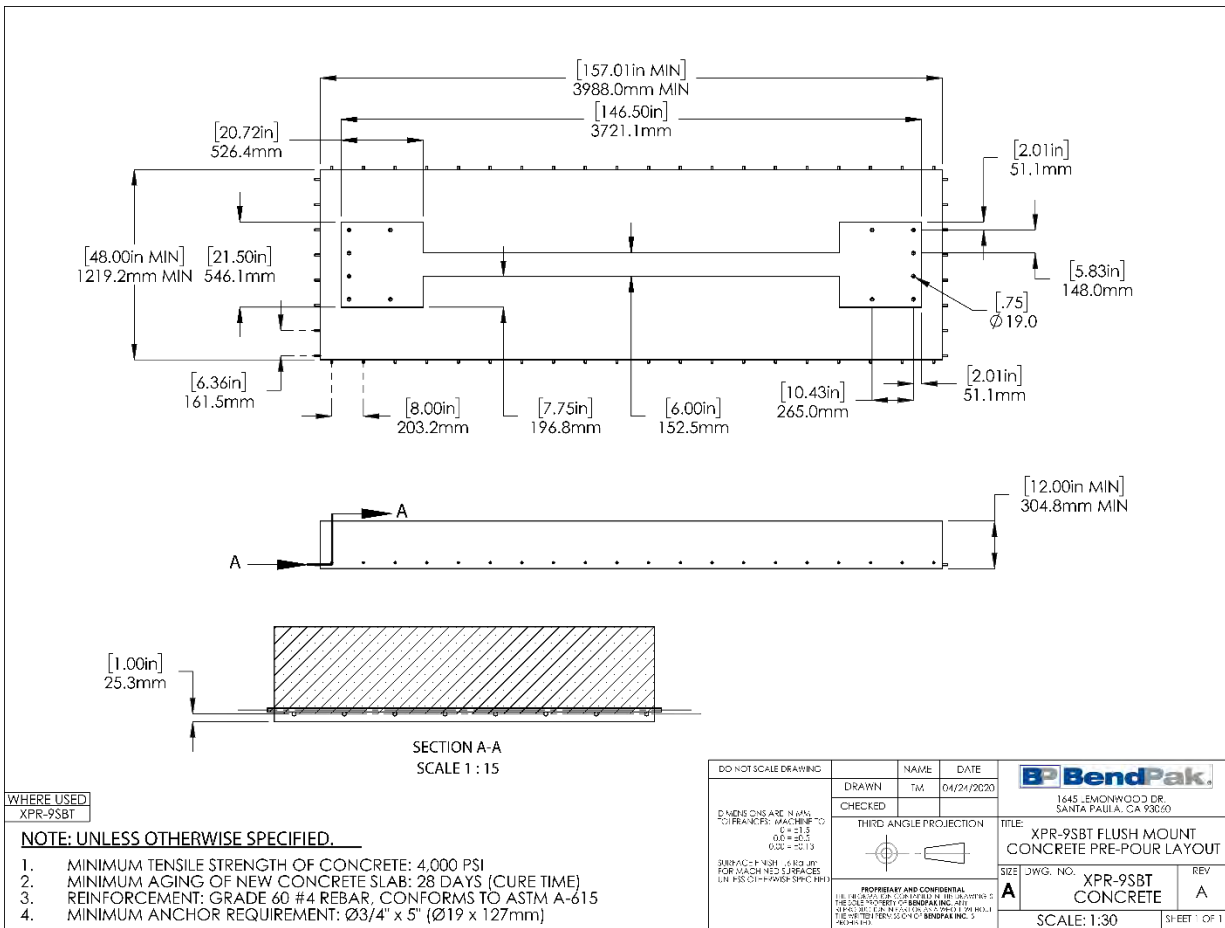
- **Concrete specifications XPR-9TF.** Verify the concrete is at least 4.25 inches thick, 3,000 PSI, and cured for a minimum of 28 days. Do not install the Lift on cracked or defective concrete. Anchor Bolts must be more than 6 inches from cracks in the concrete or from a wall.

 **CAUTION** BendPak Lifts are supplied with installation instructions and concrete anchors that meet the criteria set by the latest version of the American National Standard “Automotive Lifts – Safety Requirements for Construction, Testing, and Validation”, ANSI/ALI ALCTV. Consult with an expert for 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).

Check your floor for the possibility of it being a post-tension slab. In this case, contact the building architect **before** drilling. Using ground penetrating radar may help you find tensioned steel.

 **WARNING** Cutting through a tensioned cable can result in injury or death. Do not drill into a post-tension slab unless the building architect confirms you are **not** going to hit tensioned steel, or you have located it using ground penetrating radar. **If colored sheath comes up during drilling, stop drilling immediately.**

- **Concrete Specifications XPR-9SBT Only.** The XPR-9SBT is designed for flush mount and must be recessed, as per the figure below.



- **Unloading the components.** Unload the Lift components as close to the installation location as possible. The Lift includes a number of heavy pieces, so the closer you unload them to the installation location, the better off you will be.

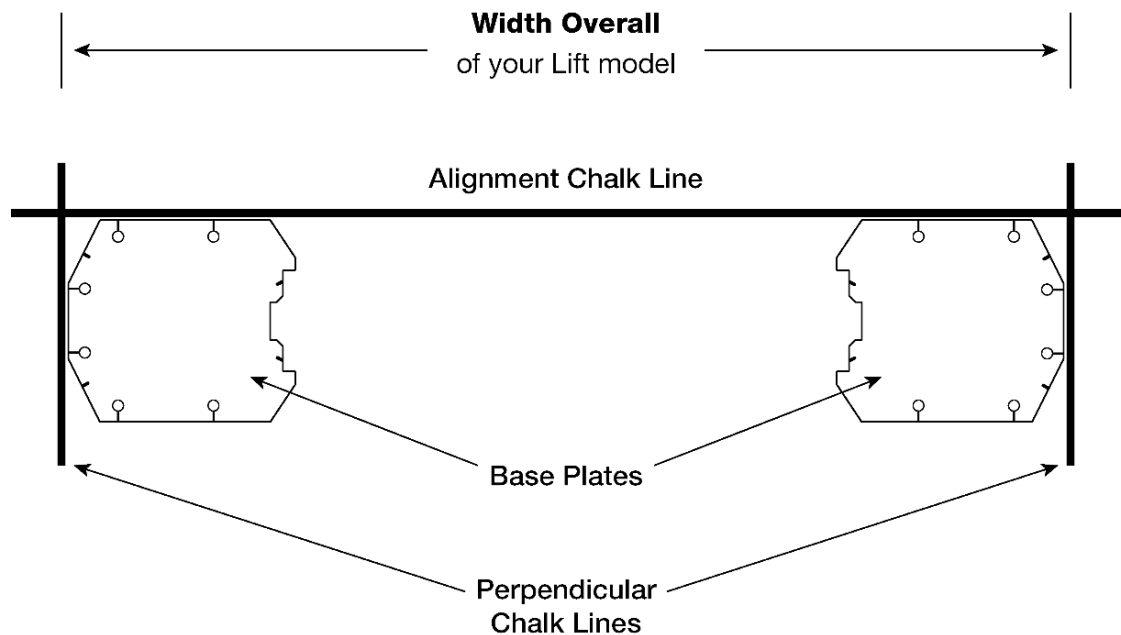
⚠ WARNING Some Lift components are very heavy; if handled incorrectly, they can damage materials like tile, sandstone, and brick. Try to handle the Lift components just twice: once when delivered and once when moved into position. You must have a Forklift or Shop Crane to move some of the Lift components into position. **Use care when moving Lift components.**

Creating Chalk Line Guides XPR-8TF Only

Create Chalk Line Guides on the ground for the two Posts prior to moving them into position. Use the Width Overall value **for your Lift model** to determine where to place the Chalk Line Guides. The Width Overall value is defined as the distance from the back of one base plate to the back of the other base plate. The **XPR-9SBT** anchoring was created when the concrete recess was formed see pg. 17.

Lift Model	Width Overall
XPR-9TF Narrow	132 in. / 3,353 mm
XPR-9TF Wide	145 in. / 3,683 mm

The following drawing shows how to create Chalk Line Guides for your Lift.



Not to scale. Components removed for clarity.

To add the Chalk Line Guides:

1. Decide where you want to locate the Lift.
2. Create an Alignment Chalk Line at the Front of the Lift. For Symmetric Lifts, see the drawing above.

For Asymmetric Lifts, put the Alignment Chalk Line through the notches; see the drawing on the previous page.

Make the Alignment Chalk Line longer than the Width Overall setting for your Lift model.

Make sure to use the Width Overall setting for Narrow or Wide orientation.

3. Create two Perpendicular Chalk Lines at 90° angles to the Alignment Chalk Lines at the Width Overall distance for the Lift model you are installing.

The two Perpendicular Chalk Lines must be **X** distance from each other, where **X** is the Width Overall setting (Narrow or Wide, depending on your selection) for your Lift model.

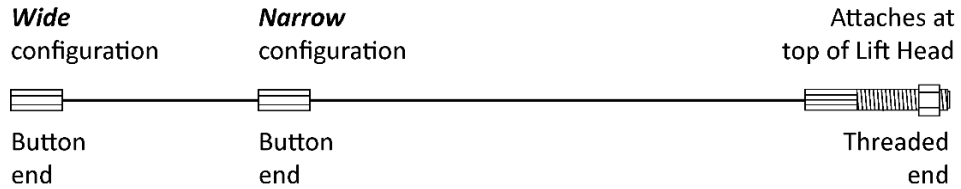
4. Put the Base Plates into the corners created by the Chalk Line Guides, as shown in the drawing on this page.

Install the Equalizing Cables

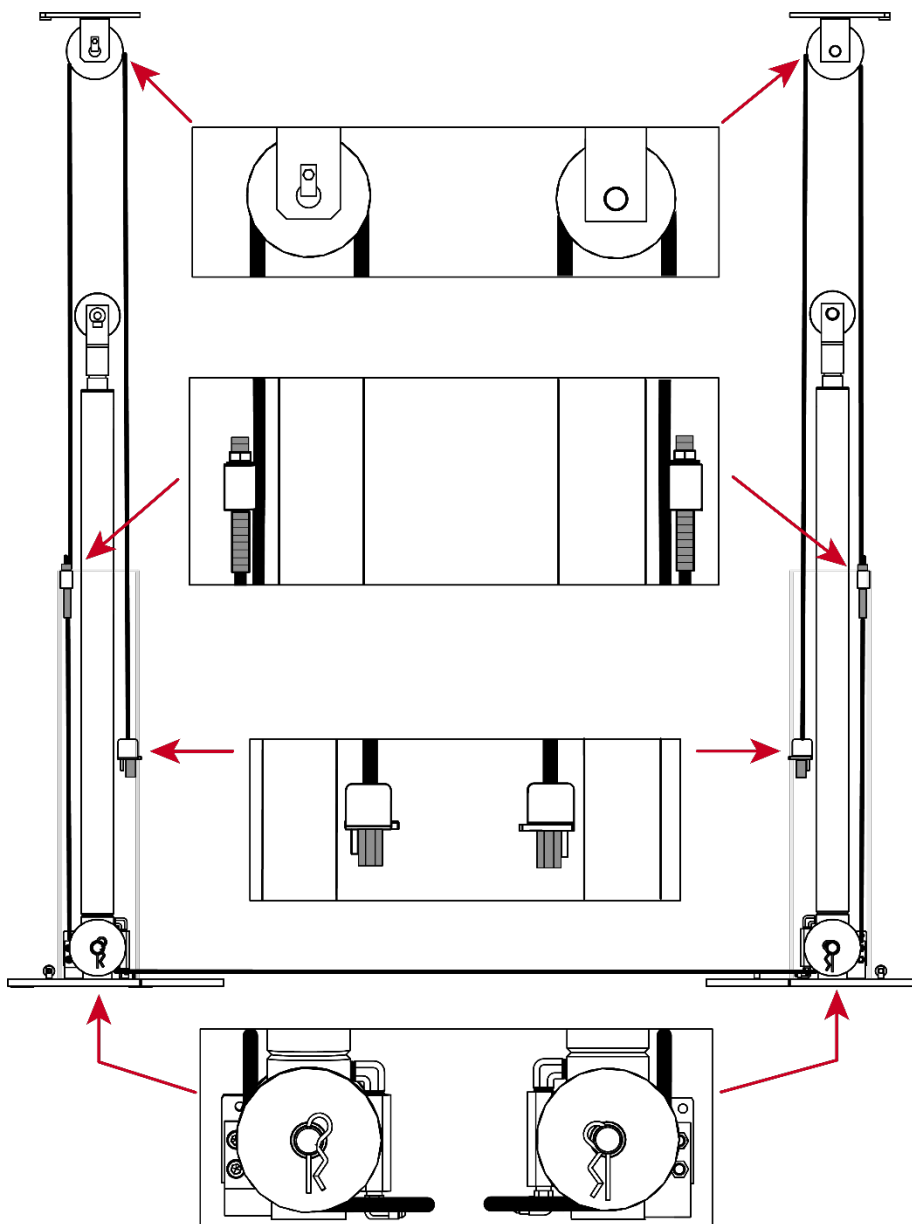
It is much easier to put the Equalizing Cables into position **before** you stand up the Posts.

The Equalizing Cables keep the Lift Heads synchronized. If one Lift Head lowers or raises faster than the other Lift Head; the Vehicle on the Lift would become unstable and could fall.

The following illustration shows an Equalizing Cable; the ends are exaggerated for clarity.



When Equalizing Cables are fully routed, they are mirror images of each other.



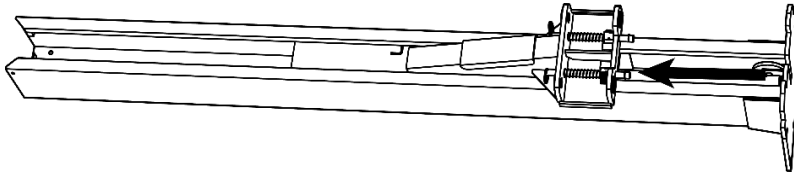
XPR-9TF:
(2X) Cable Assembly
5595746

XPR-9SBT:
(2X) Cable Assembly
5595359

⚠ CAUTION BendPak recommends wearing gloves while handling the Equalizing Cables.

To put the Equalizing Cables into position:

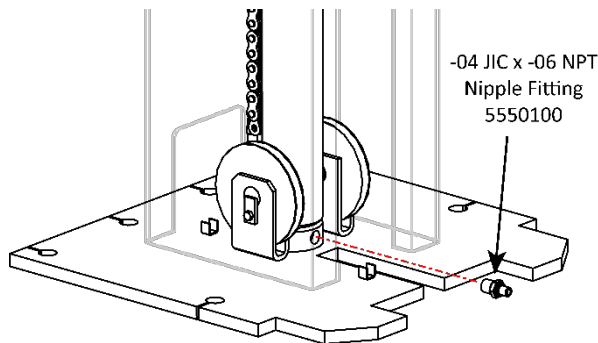
1. Using a forklift or equivalent, move the Posts near the Chalk Lines.
2. Place both Posts either flat on the ground or with their tops elevated on a sawhorse or similar; the insides of the Posts need to be accessible, facing up.
3. Slide the Lift Heads away from the bottoms of both Posts by at least 24 inches / 610 mm, to provide some space to work.



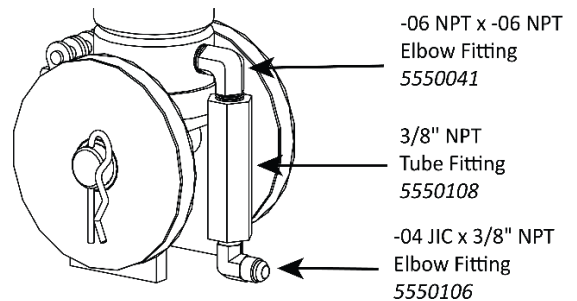
4. **XPR-9TF users:** remove the shipping plug from the Lift Cylinder port, then install a Nipple Fitting (5550100), making sure to use Thread Sealant on the NPT threads only.

XPR-9SBT users: remove the shipping plug from the cylinder port, then install three Cylinder Fittings, making sure to use Thread Sealant on NPT Threads only.

XPR-9TF:

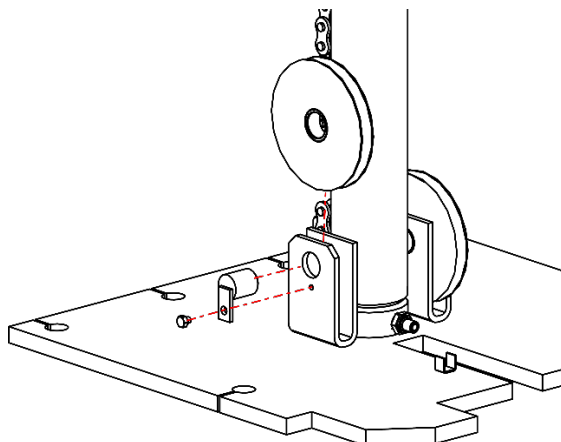


XPR-9SBT:

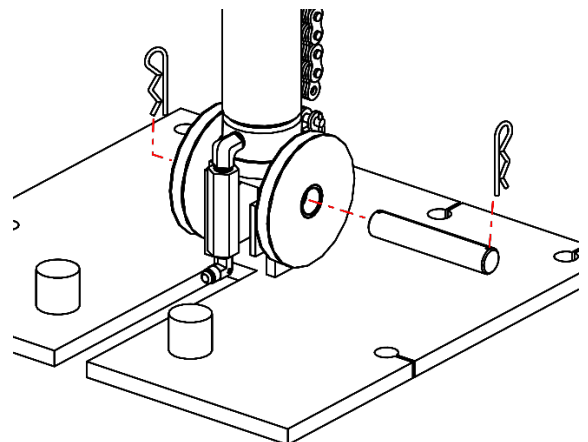


5. Remove the two Post Sheaves from the bottom of the Post. Keep the Cable Sheaves, Sheave Pins, and Hair Pins nearby; you will be re-installing them soon.

XPR-9TF:



XPR-9SBT:

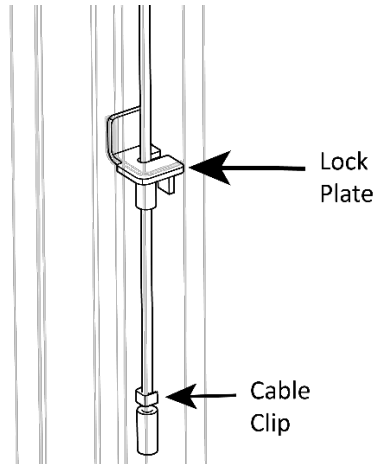


6. Locate the two Equalizing Cables.

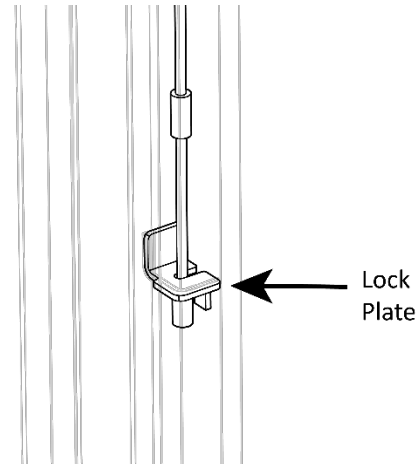
For both lifts, the Equalizing Cables are the same length, so it does not matter which one you install first.

7. For **XPR-9TF** installations, determine the wide or narrow Button End you are going to use on the Cable.
8. Secure the Button end at the Carriage Lock Plate located inside each Lift Head.

Narrow Configuration:

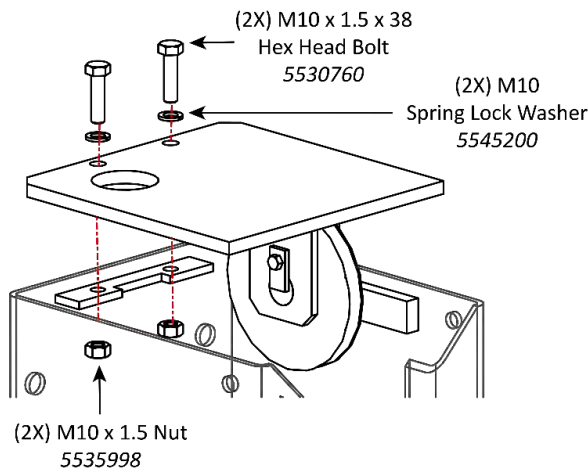


Wide Configuration:



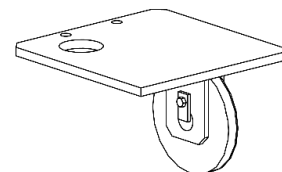
CAUTION Failure to secure the Button end may result in Lifting Chain failure or Lift malfunction.

9. Route the threaded end of the Cable *upwards* to where the Top Plate Sheave is.
10. Install the Top Plates on the top of the Posts and thread the cable around the Sheave. Refer to the figure below to assemble.



Top Plate Assembly:

XPR-9TF – 5215999 (2X)
XPR-SBT – 5215226 (2X)



11. Route the Cable down the Lift Post and around the Sheave at the bottom of the Post and out to the Opposite Post.
12. Route the Cable around the bottom Sheave and up to the Lift Head.
13. Insert the threaded end of the cable into the Cable Holder. Use the Washer and Nut loosely secure the cable end to the Lift Head.

14. Retrieve the remaining Cable and repeat the procedure beginning on the opposite Post.

It can be difficult to get the Button End into the Slot, as it may be hard to reach the Lock Plate. You may want to use a metal rod or a long tool to push the Button End into the Slot.



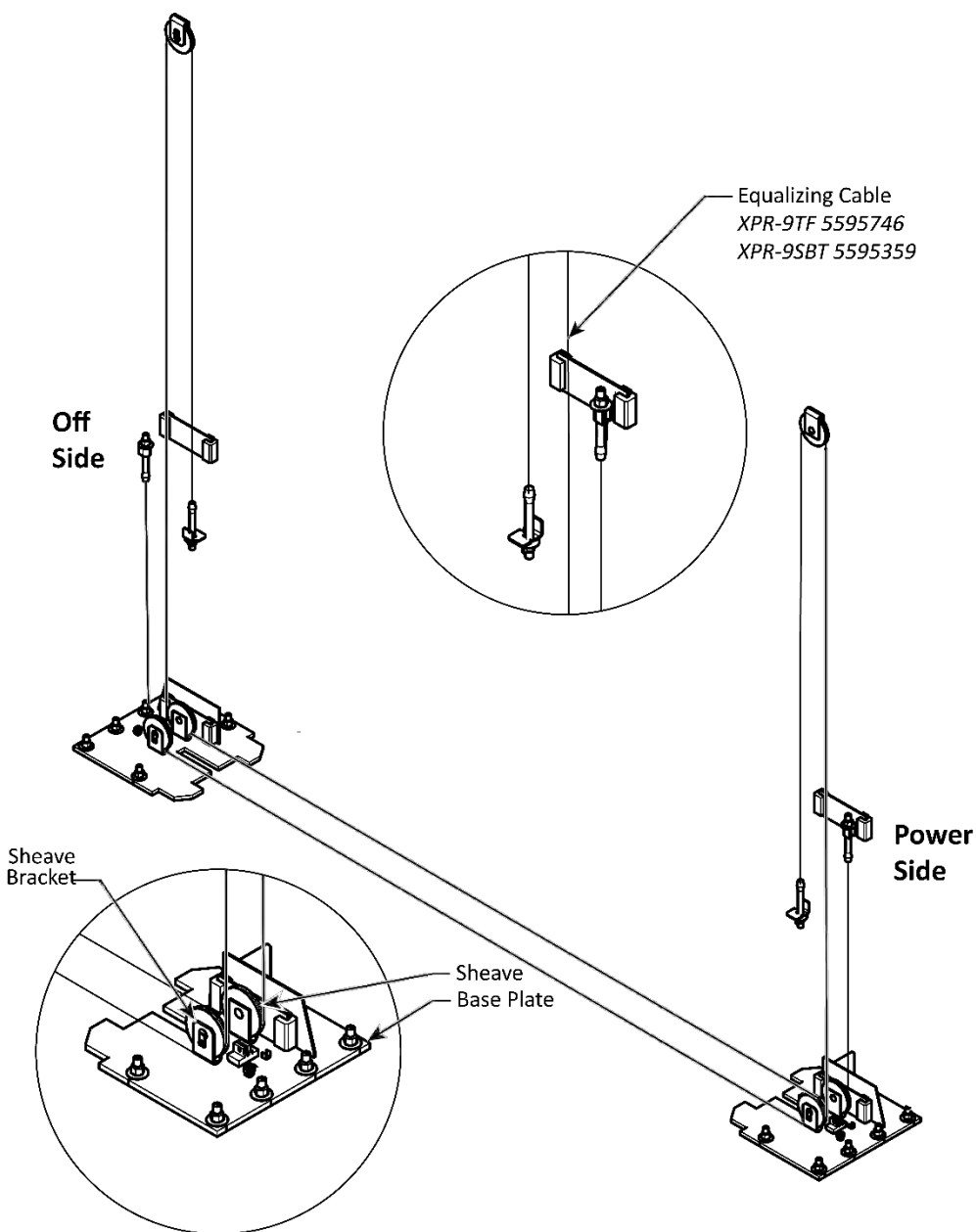
Tip

If you are having problems getting the Button end into the Slot, you might want to try pushing the Button end past the Lock Plate. Then move the Equalizing Cable around to get the cable into the Slot. Once the cable is in the Slot, pull on the other end of the cable to slide the Button end into the Slot. Try to keep the cable taut until the Equalizing Cable is connected at the other end.

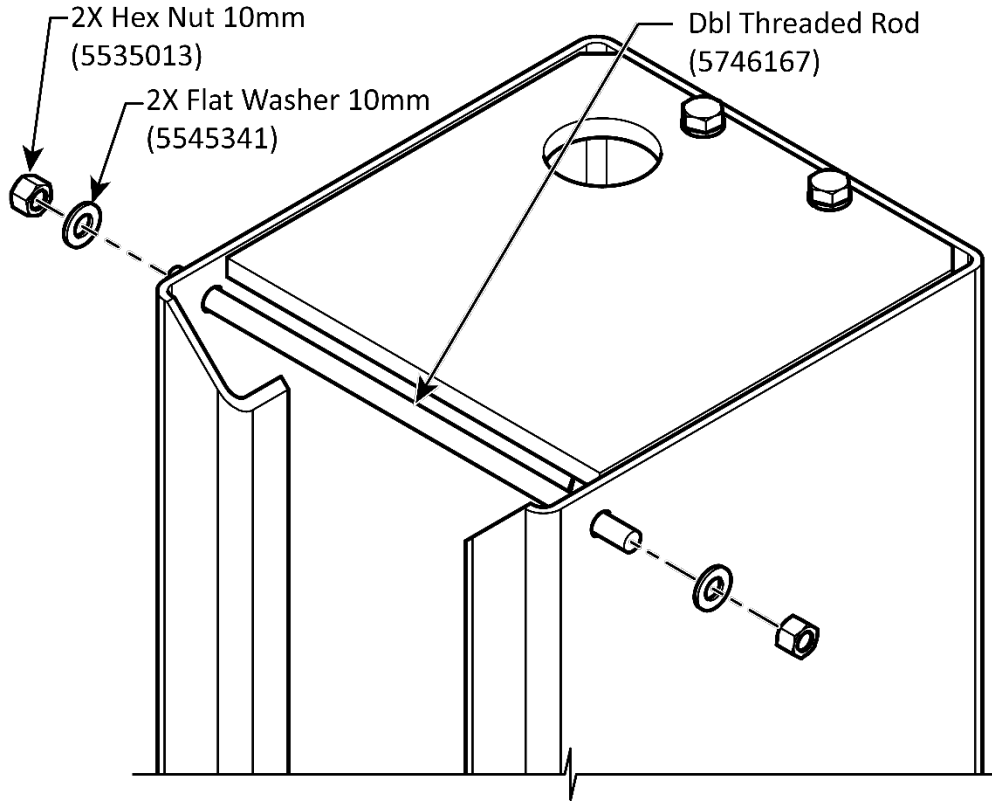
15. After the Cables are in place. Reinstall all Sheaves and pins that were removed.

16. Verify the Pulley plate at the top of each post is secured.

17. Move both Lift Heads back down to the bottom of each Post.



18. On **both** Lift Posts, locate the two Double Threaded Rods (M10 x 275 mm rods, threaded on both ends), two Nuts, and two Washers in the Parts Box, put them into place through the top of each Post (they go all the way through the top of the Post), and tighten them in place on both ends. Refer to the figure on the next page.

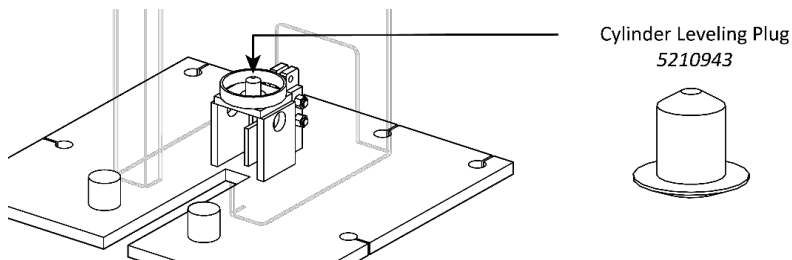


Install the Cylinder Chain and Roller

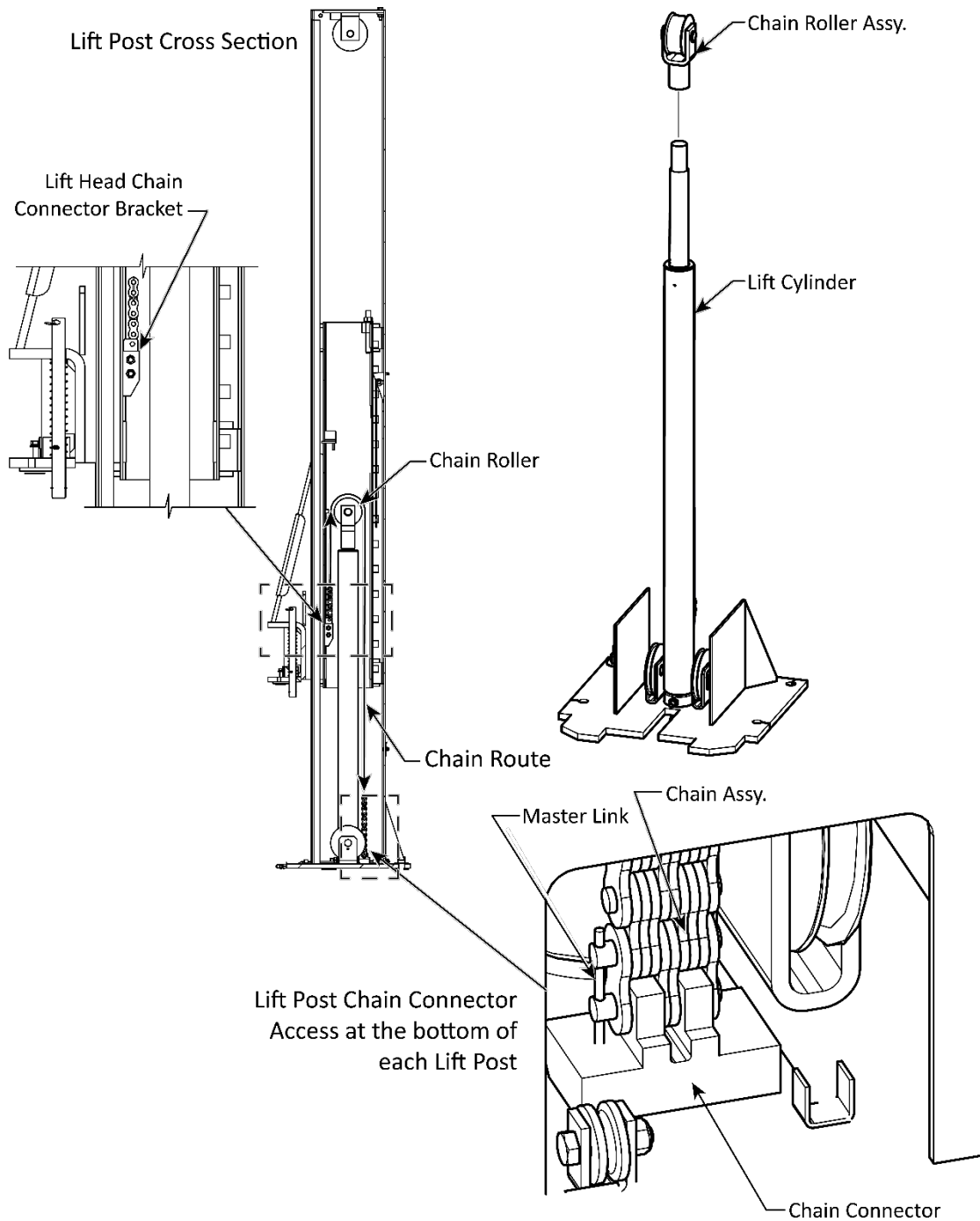
The Lift Cylinder drives a Chain connected between the Base plate and the Lift Head.

To install the Cylinder Chain:

1. Perform these operations while the Posts are on their side with the interior accessible and the Lift Head free to move.
2. Retrieve the Chain with its Master Links.
 - XPR-9TF Chain (5210251)
 - XPR-9SBT Chain (5210116)
3. On **XPR-9SBT only**, verify the Cylinder Leveling Plug is in Place. Refer to the figure below.



4. Place the Chain Roller Assembly (5210117) on the Lift Cylinder Rod.
5. Connect and secure one end of the Chain Assembly to the Base Plate anchor using the Master Link.
6. Thread the Chain around the Chain Roller and through the Lift Head.
7. Anchor the end of the Chain to the Lift Head Connector Bracket on the inside of the Lift Head. Refer to the figure below.



8. Visually inspect the Lift Head Chain is properly positioned with the Lift Head Chain Sheave.

Anchoring the Posts

We strongly recommend having multiple people work together to install the Posts.

⚠ DANGER Pay **special** attention when installing the Posts. If done incorrectly, the Lift could fall over, potentially causing damage to the Vehicle, the Lift, and injuring bystanders.

Concrete specifications are:

- **Depth:** 4.25 inches / 108 mm thick, minimum
- **PSI:** 3,000 PSI, minimum
- **Cured:** 28 days, minimum

Anchor Bolt specifications are:

- **Length:** 6.3 inches / 160 mm
- **Diameter:** .75 inch / 19 mm
- **Anchor torque:** 85 – 95 pound feet (never less than 80 or more than 110)
- **Effective embedment:** 3.25 inches / 82.5 mm or more

The Concrete floor where you want to install your Lift must meet the following requirements:

- The floor must be a flat, Concrete floor. It must be level; **do not install the Lift on a surface with more than three degrees of slope.**
- Do not install the Lift on cracked or defective Concrete.
- Check the floor for the possibility of it being a post-tension slab. In this case, contact the building architect before drilling. Using ground penetrating radar may help you find the tensioned cable.

⚠ WARNING Cutting through a tensioned cable can result in injury or death. Do not drill into a post-tension slab unless the building architect confirms you are **not** going to hit a tensioned cable, or you have located it using ground penetrating radar. **If colored sheath comes up during drilling, stop drilling immediately.**

⚠ WARNING Your Concrete and Anchor Bolts **must** meet these specifications. Only install your Lift on a Concrete surface. If you install a Lift on asphalt or any other surface, or your Concrete or Anchor Bolts do not meet these specifications, it could lead to product damage, Vehicle damage, personal injury, or even loss of life.

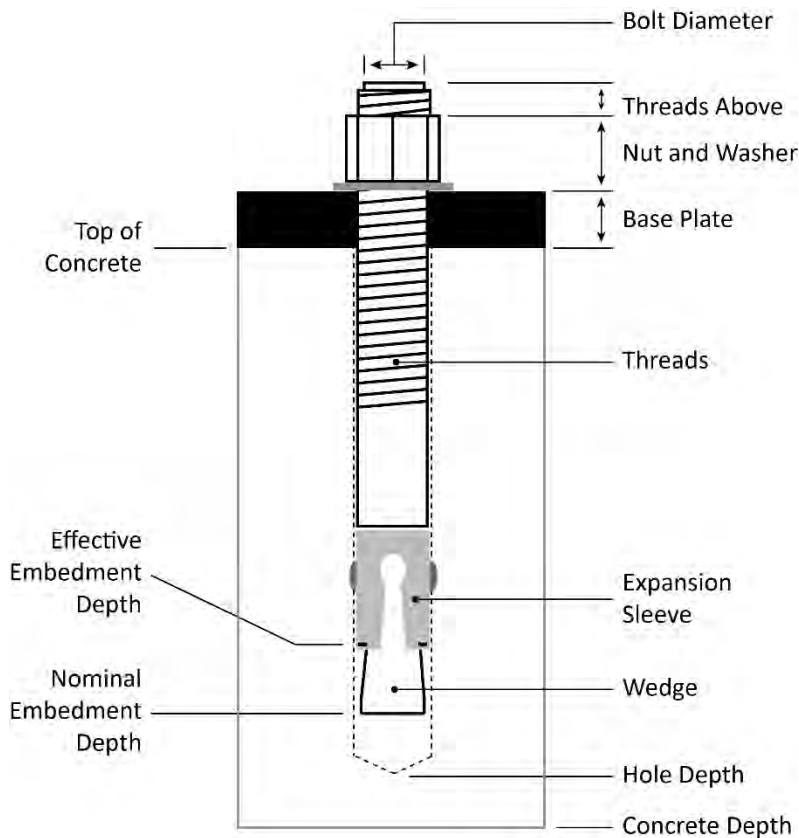
BendPak Lifts are supplied with installation instructions and concrete fasteners meeting the criteria as prescribed by the latest version of the American National Standard “Automotive Lifts – Safety Requirements for Construction, Testing, and Validation”.

⚠ WARNING Use only the ALI-certified Anchor Bolts that came with your Lift. If you use components from a different source, you void your warranty and compromise the safety of everyone who installs or uses the Lift.

Lift buyers are responsible for conforming to all regional, structural, and seismic anchoring requirements specified by any other agencies and/or codes, such as the Uniform Building Code and/or International Building Code.

Effective Embedment is the location in the Hole where the Expansion Sleeve presses into the Concrete. This is where the Anchor Bolts get their holding strength, the further down into the Hole, the greater the holding strength.

Nominal Embedment is how far down into the Hole the bottom of the Anchor Bolt is, which does not tell you anything about the holding strength.



Not to scale. Components removed for clarity.

To install the Posts:

1. Using a Forklift or Shop Crane, move the Posts to the Chalk Line Guides you created earlier.
2. Stand up each Post, one at a time, and move it to the appropriate location.
3. Double check your measurements against the **Specifications** for your Lift model:
 - Distance from back of one Base Plate to back of the other Base Plate: **Width Overall** value
 - Distance from inside of one Post to inside of the other Post: **Inside Posts** value
4. Using the Base Plates as guides, drill each hole **4.5 inches** deep; use a carbide bit.

Do not drill all the way through the Concrete; if you punch completely through the slab, you could compromise the holding strength of the Anchor Bolts.

Go in straight; do not let the drill wobble.

The diameter of the drill bit must be the same as the diameter of the Anchor Bolt. So, if you are using a 3/4 inch diameter Anchor Bolt, for example, use a 3/4 inch diameter drill bit.

- Vacuum each hole clean. BendPak recommends using a Vacuum to get the hole very clean.

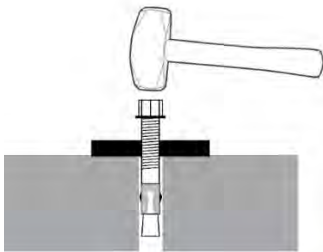
WARNING You must use the appropriate safety gear including safety glasses, dust masks, gloves, steel-toed work boots and heavy work clothes when anchoring the Posts.

You can also use a wire brush, hand pump, or compressed air; just make sure to thoroughly clean each hole.

Do not ream the hole. Do not make the hole any wider than the drill bit made it.

Important: The holding strength of an Anchor Bolt is partially based on the how cleanly the Expansion Sleeve presses against the Concrete. If the hole is dirty or too wide, there is less holding strength.

- Make sure the Washer and Nut are in place, then insert the Anchor Bolt into the hole.

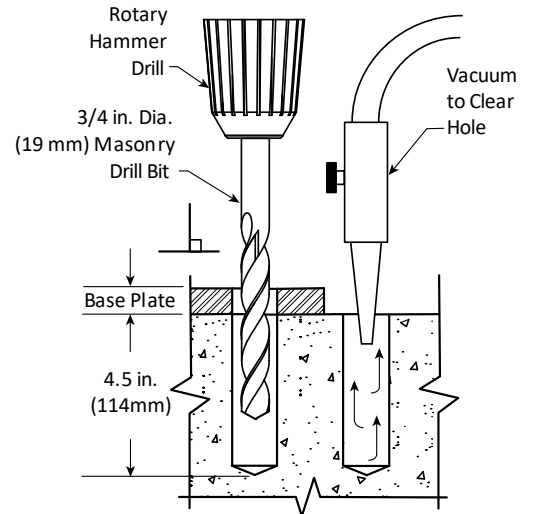
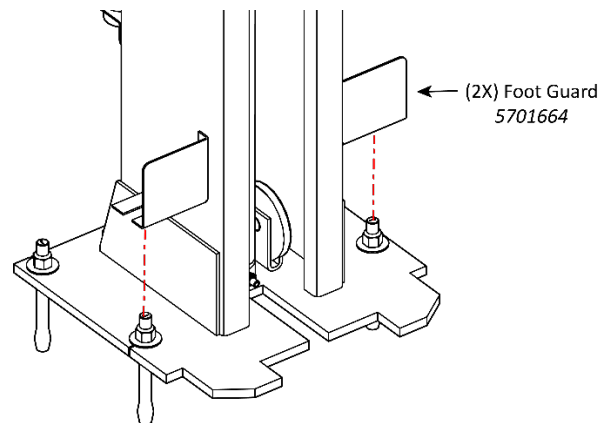
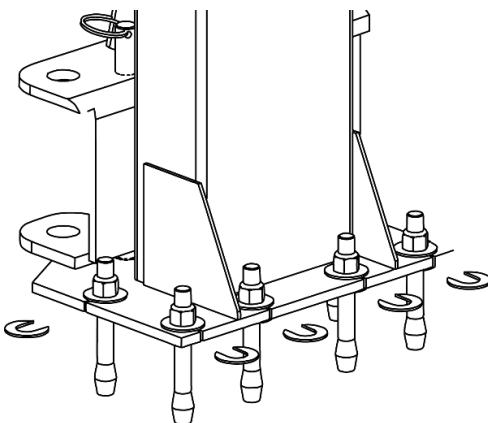


The Expansion Sleeve of the Anchor Bolt may prevent the Anchor Bolt from passing through the hole in the Base Plate; this is normal. Use a hammer or mallet to get the Expansion Sleeve through the Base Plate and into the hole.

Even using a hammer or mallet, the Anchor Bolt should only go into the hole part of the way; this is normal. If the Anchor Bolt drops in with little or no resistance, the hole is too wide.

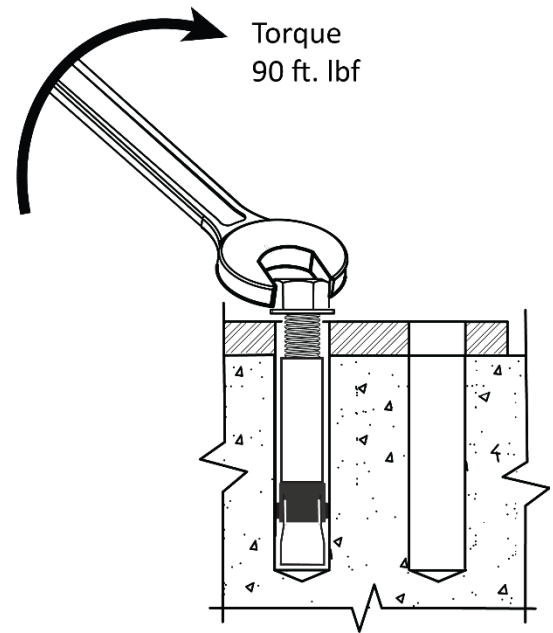
Once past the hole in the Base Plate, the Anchor Bolt eventually stops going down into the hole as the Expansion Sleeve contacts the sides of the hole; this is normal.

- Hammer or mallet the Anchor Bolt the rest of the way down into the hole; stop when the Washer is snug against the Base Plate.
- Plumb each Post; install any needed Shims or the optional Height Adapter Trays.



9. Wrench each Nut **clockwise** to the recommended installation torque, 85 – 95 pound feet, using a Torque Wrench.

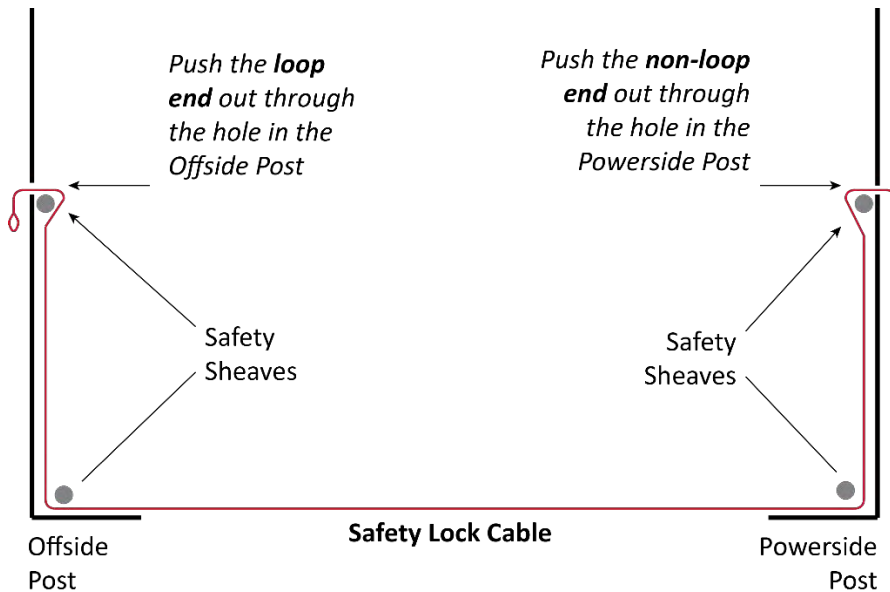
Important: Do **not** use an impact wrench to torque the Anchor Bolts.



Routing the Safety Lock Cable

The following procedure describes how to put the Safety Lock Cable into place; it does **not** describe how to attach it to the Safety Lock Assemblies.

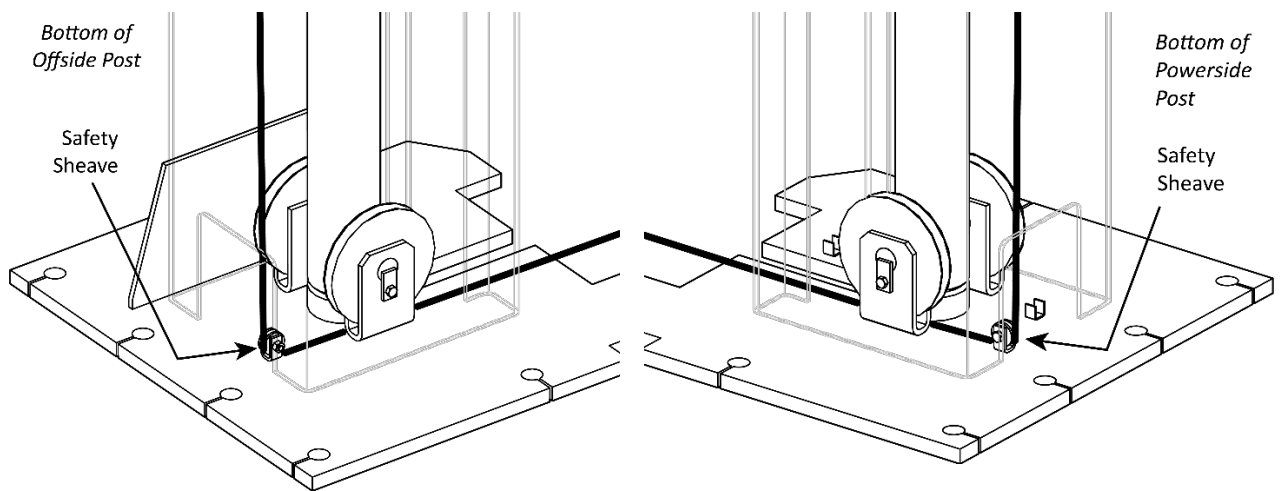
The following drawing shows the path the Safety Lock Cable travels to each Safety Assembly.



The Safety Lock Cable is a long, thin steel cable with a loop on one end, no loop on the other end. **The two ends are not interchangeable.**

Safety Cable:
XPR-9TF - 5595124
XPR-9SBT - 5595161

Drawing not to scale. Components removed for clarity. The Safety Assemblies are not installed at this point, so the Safety Lock Cable, after being routed, will simply stay in place until later in the installation.



To route the Safety Lock Cable:

1. Locate the Safety Lock Cable for your Lift.
2. **Starting on the inside of the Offside Post**, push the **loop end** of the Safety Lock Cable out through the opening in the Offside Post; leave the loop end hanging out of the hole, for now.
3. Route the other end (the non-loop end) of the Safety Lock Cable over the Safety Sheave, downwards on the inside of the Offside Post, under the Safety Sheave at the bottom of the Offside Post, across the Lift floor, under the Safety Sheave at the bottom of the Powerside Post, then upwards, on the inside of the Powerside Post, towards the Mounting Bracket.
4. **On the Powerside Post**, when the **non-loop end** of the Safety Lock Cable is near the Mounting Bracket, route it over the Safety Sheave, then push it through the opening in the Powerside Post.
5. The Powerside Safety Assembly is not yet installed, so just leave the non-loop end of the Safety Lock Cable hanging out of the hole. Both ends of the Safety Lock Cable will be appropriately connected during the procedure to install the Safety Assemblies.

⚠ CAUTION When connecting the ends of the Safety Lock Cable later in the installation, make sure the Cable stays in all of the Safety Sheaves. This keeps it out of the way of the Hydraulic Hoses and Equalizing Cables.

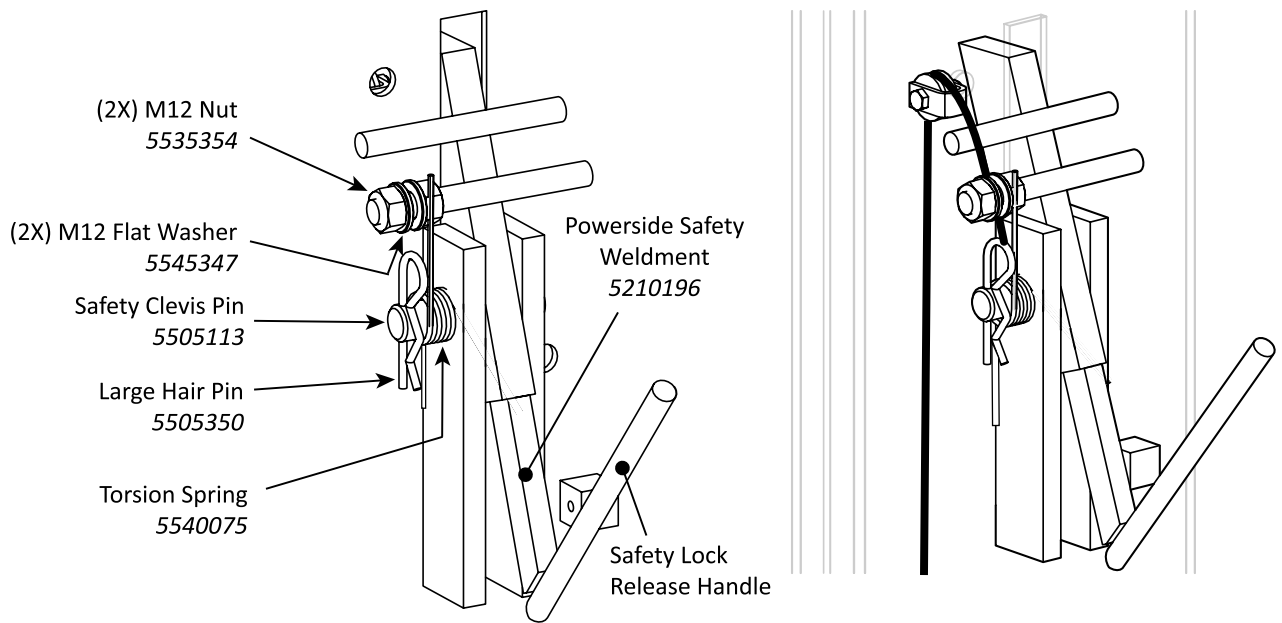
Connecting the Safety Lock Cable – XPR-9TF only

Your XPR-9 Series Lift has two Safety Assemblies: one on the Powerside Post (above the Power Unit) and the other on the Offside Post.

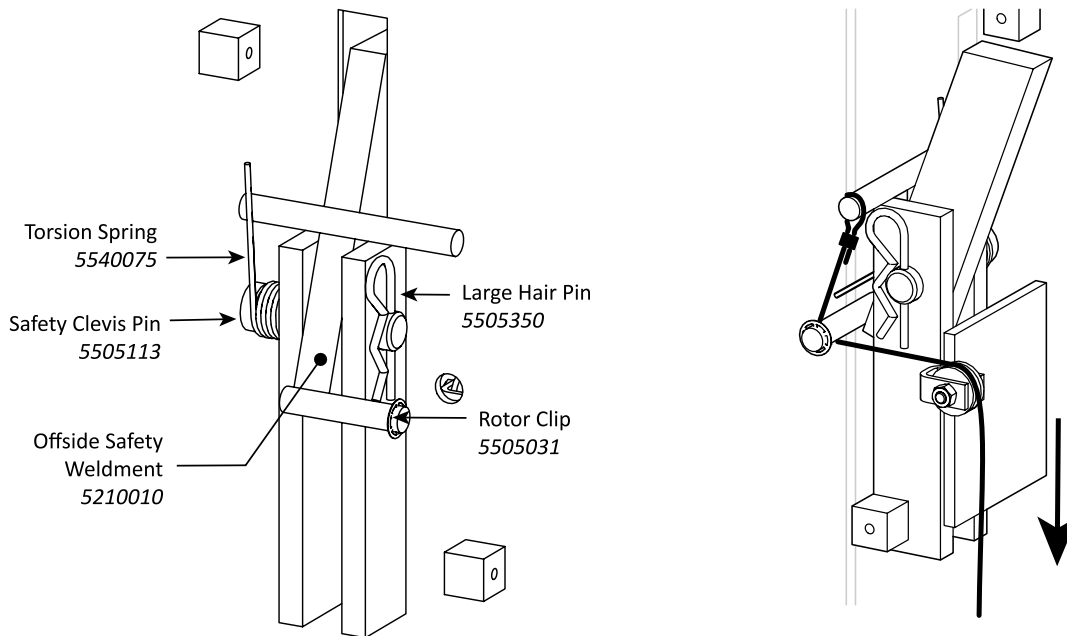
The Safety Assemblies take the Lift off of its Safety Locks so the Lift Arms can be lowered. The Safety Assemblies need to be disengaged at the same time so that the Lift Arms lower together. In order to do this, the two Safety Assemblies are connected to each other via the Safety Lock Cable.

Routing the Safety Lock Cable was done earlier; refer to [Routing the Safety Lock Cable](#) for additional information.

The **Powerside Safety Assembly** includes a Safety Lock Release Handle, which angles up and is used to lower the Lift.



The **Offside Safety Assembly** is mostly the same as the Powerside Safety Assembly, *except* that it does not have a handle.



The procedures for installing the Powerside Post and the Offside Post Safety Assemblies are similar, but not exactly the same.

Use the illustrations on the previous page to complete the procedures below.

To install the two Safety Assemblies:


1. **Starting on the Powerside Post**, locate the Safety Assembly **with** the Safety Lock Release Handle, a Safety Clevis Pin, a Torsion Spring, and a Hair Pin.

Refer to the previous drawings for locations of the components of the Safety Assemblies.

-
2. Insert the Safety Clevis Pin, from the right, through the hole in the right welded plate, then through the Powerside Safety Weldment, and then through the left welded plate.
 3. Position the Torsion Spring on the left end of the Safety Clevis Pin, then install the Hair Pin on the end of the Safety Clevis Pin.
 4. Repeat Steps 1 through 3 for the Offside Safety Assembly on the Offside Post.

To connect the Safety Lock Cable:

1. **Starting on the Offside Post**, route the loop end of the Safety Cable over the short, lower Welded Pin, past the Safety Clevis Pin, and loop it over the right end of the longer, Welded Pin.
2. Secure a Rotor Clip to the short, lower Welded Pin to keep the Cable in place.
3. **Moving to the Powerside Post**, screw two Nuts and Washers onto the threaded end of the Welded Pin with Threads. Make sure that one Nut and one Washer is on each side of the hole in the Welded Pin with Threads.
4. Put the non-loop end of the Safety Cable over the front of the Welded Pin and into the hole in the Welded Pin with Threads, between the two Nuts and the two Washers.
5. Pull any slack out of the Safety Cable, then tighten the Nuts.

 **CAUTION** When tightening the Nuts, keep tension on the Safety Cable and keep the Safety Cable centered between the two Nuts.

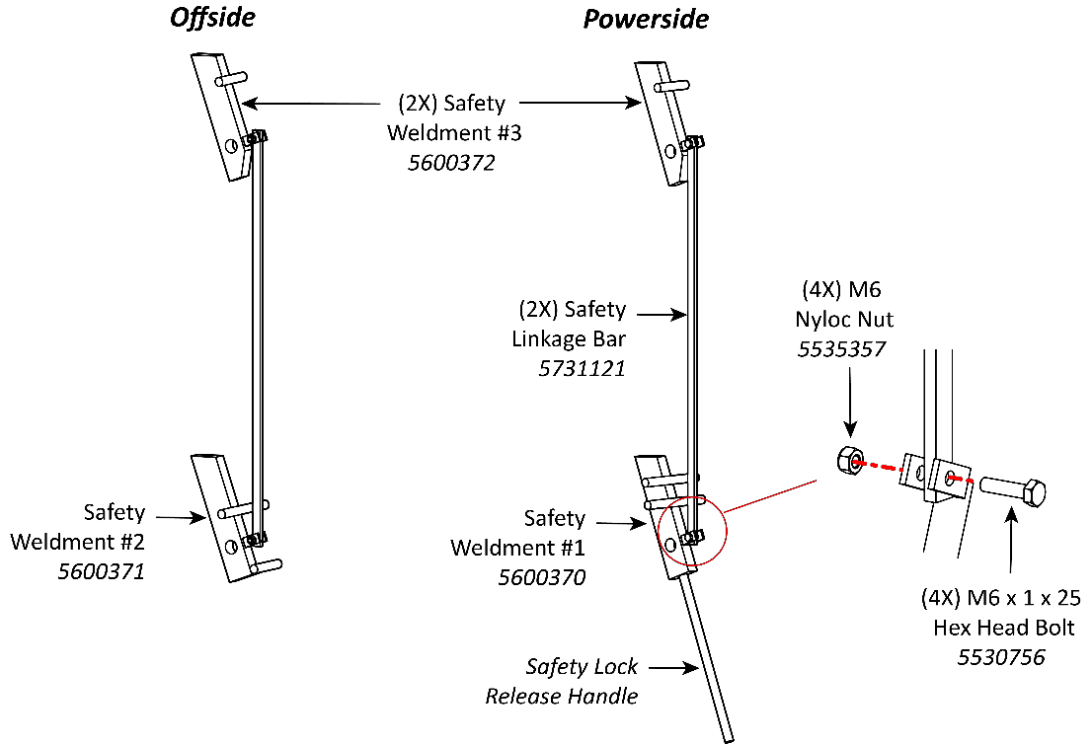
6. Operate the Safety Lock Release Handle, checking for proper operation of both Safety Assemblies.

 **DANGER** Verify that both the Powerside and the Offside Safety Assemblies engage properly **before** operating the Lift.

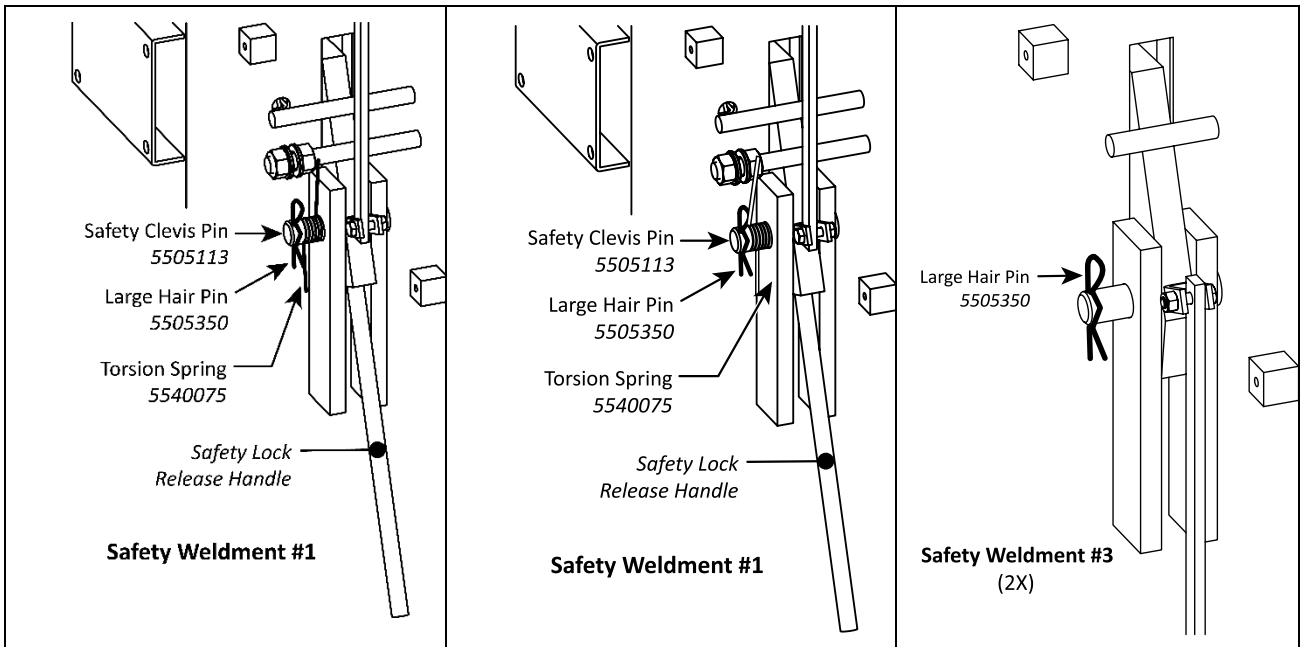
Connecting the Safety Lock Cable - XPR-9SBT

The procedures for installing the Powerside and Offside Safety Assemblies are similar to that of the XPR-9TF; the main differences include two Safety Assemblies per each Post and adding a Safety Bar that links the Safety Assemblies on each Post.

The following illustration shows the XPR-9SBT Safety Assemblies.

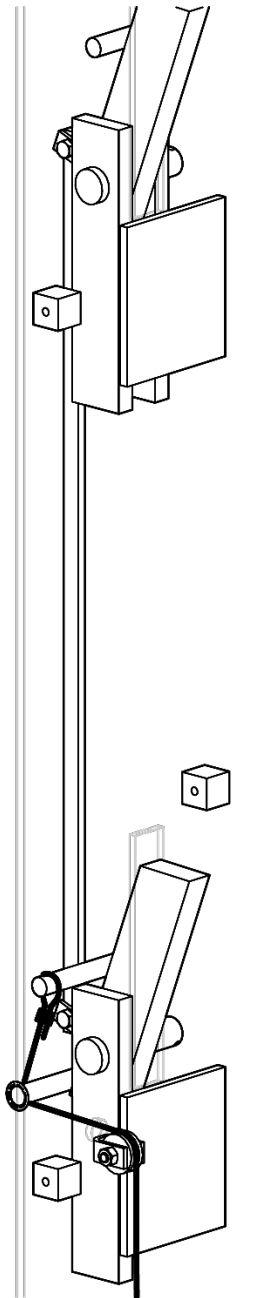


The following illustrations show how to assemble the Safety Assemblies.

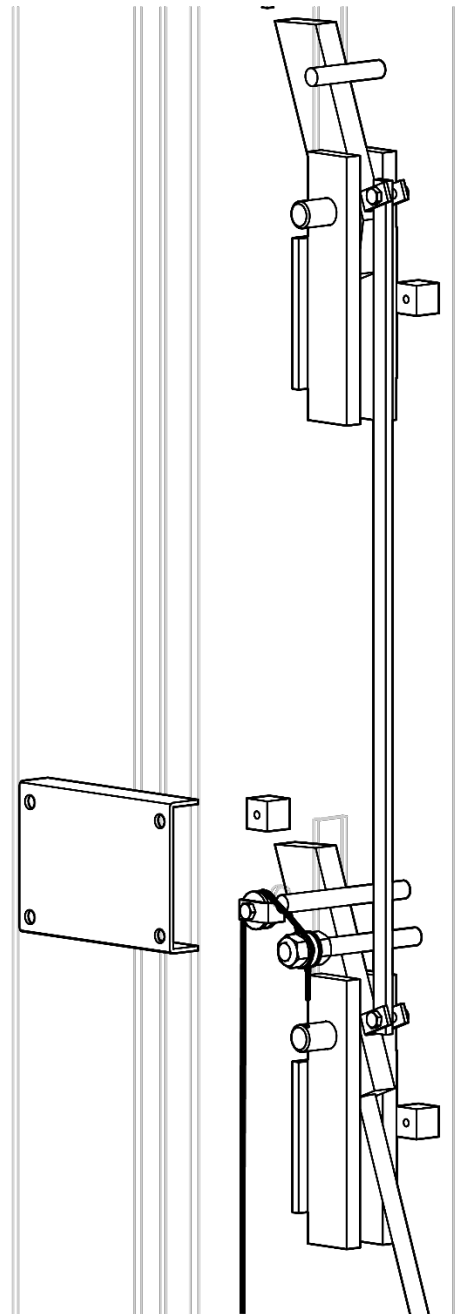


The following illustration details the Safety Lock Cable connections to the Safety Assemblies.

Offside Safeties:



Powerside Safeties:



Use the illustrations on the previous page to complete the following procedures below.

To install the Safety Assemblies:

1. Locate the four Safety Assemblies, two Linkage Bars, four Clevis Pins, four Large Pins, and Torsion Springs.
2. Join the Offside Safety Assemblies (Safety Weldment #2, Safety Weldment #3) using the Linkage Bar, as shown in the previous illustrations.
3. Join the Powerside Safety Assemblies (Safety Weldment #1, Safety Weldment #3) using the second Linkage Bar, as shown in the previous illustrations.

The Safety Assembly with the Safety Lock Release Handle **must** go to the Powerside Post.


4. **Starting at the Powerside Post:** position the Safety Weldment #1 in place on the Post, insert the Safety Clevis Pin, from the right, through the hole in the right welded plate in the Powerside Post, then through the Powerside Safety Weldment, and then through the left welded plate.
5. Position the Torsion Spring on the left end of the Safety Clevis Pin, then install the Hair Pin on the end of the Safety Clevis Pin.
6. For the Top Safety Assembly, position the Safety Weldment #3 in place on the Post, insert the Safety Clevis Pin, from the right, through the hole in the right welded plate in the Powerside Post, then through the Safety Weldment, and through the left welded plate.
7. Install a Hair Pin on the end of the Safety Clevis Pin to secure it in place.
8. Repeat Steps 1 through 7 for the Offside Safety Assemblies on the Offside Post.

To connect the Safety Lock Cable:

1. **Starting at the Offside Post,** route the loop end of the Safety Cable over the short, lower Welded Pin (Safety Weldment #2), past the Safety Clevis Pin, and loop it over the right end of the longer, Welded Pin.
2. Secure a Rotor Clip to the short, lower Welded Pin to keep the Cable in place.
3. **Moving to the Powerside Post,** screw two Nuts and Washers onto the threaded end of the Welded Pin with Threads (Safety Weldment.

Verify that one Nut and one Washer is on each side of the opening in the Welded Pin with Threads.

4. Put the non-loop end of the Safety Cable over the front of the Welded Pin and into the holes in the Welded Pin with Threads, between the two Nuts and the two Washers.
5. Pull any slack out of the Safety Cable, then tighten the Nuts.

 **CAUTION** When tightening the Nuts, keep tension on the Safety Cable and keep the Safety Cable centered between the two Nuts.

6. Operate the Safety Lock Release Handle, checking for proper operation of both Safety Assemblies.

 **DANGER** Verify that both the Powerside and the Offside Safety Assemblies engage properly **before** operating the Lift.



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™ 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 recommended. 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.

About Thread Sealants

Liquid Thread Sealant lubricates and fills the gaps between the Fitting threads and leaves no residue that could contaminate the Hydraulic Fluid. Other types of Thread Sealants (like Teflon Tape) can shred during installation or removal and eventually enter the Hydraulic System.

Thread Sealant can be used with most Hydraulic Fittings, although you probably only need to use it with NPT connectors.

To apply Thread Sealant:

1. Make sure the Fittings and connectors you are going to use are clean and dry.

If you are adding Thread Sealant to a Fitting or connector that has already been used with a different sealant, use a wire brush to thoroughly remove the old sealant before adding more.

2. Skipping the top thread, apply a small amount of Thread Sealant to the first four threads of the Fitting.

⚠ WARNING Always wear the proper protective equipment when handling Thread Sealant.

You only need a small amount because the sealant spreads to the other threads as it is tightened into place.

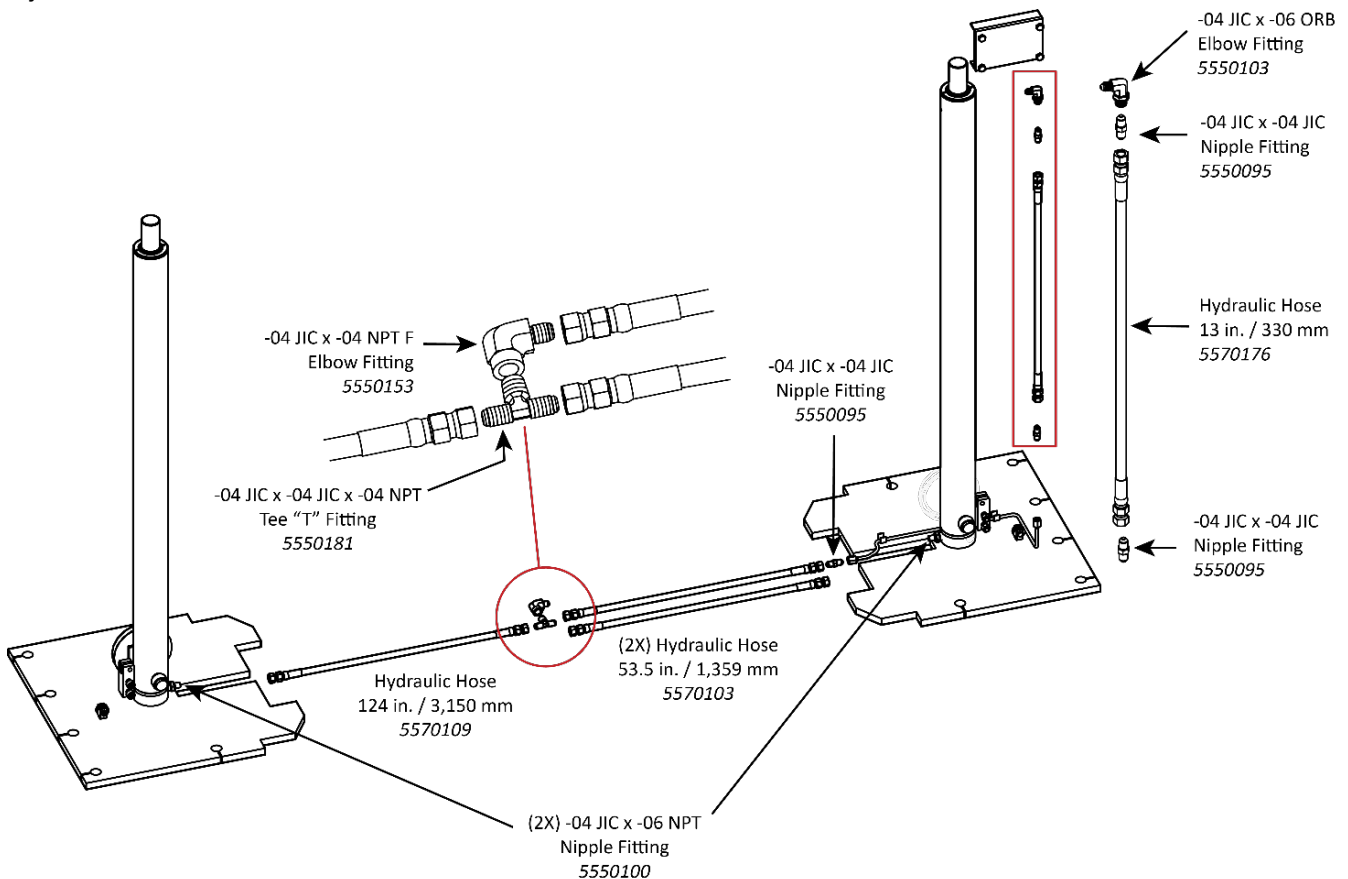
If you put too much, the excess liquid will be pushed out when the Fitting is tightened; use a rag to wipe the excess.

3. Tighten the Fitting into the connector; do **not** over tighten the Fitting.
4. Allow the manufacturer-recommended curing time before pressurizing the system.



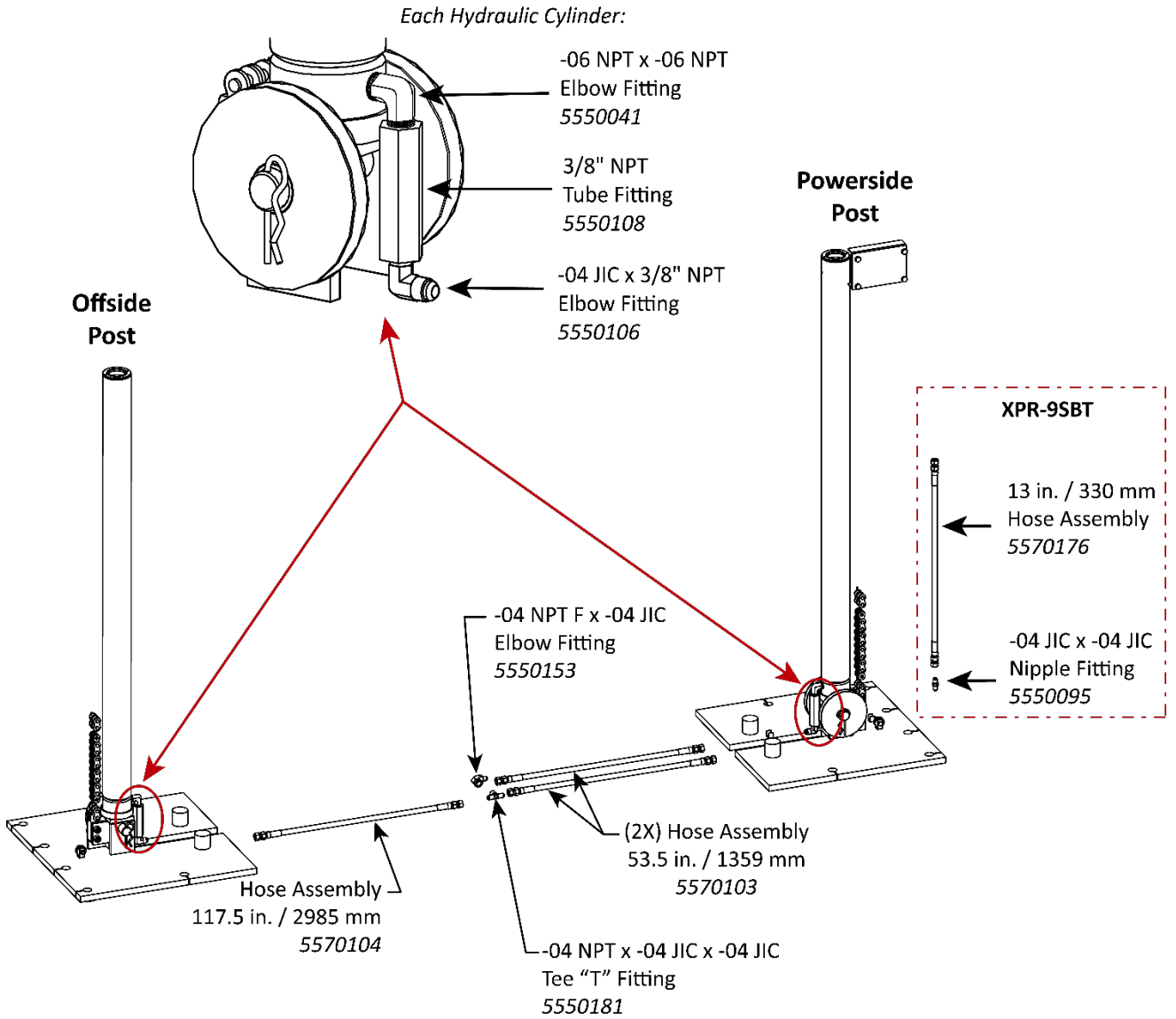
Routing the Hydraulic Hoses – XPR-9TF

The following illustration shows how to connect the XPR-9TF Hydraulic Hoses to the Hydraulic Cylinders.



Routing the Hydraulic Hoses – XPR-9SBT

Hydraulic Hoses move Hydraulic Fluid to and from the Hydraulic Cylinders at the bottom of each Post. Refer to the figure below when connecting the Hydraulic Hoses to the Hydraulic Cylinders.



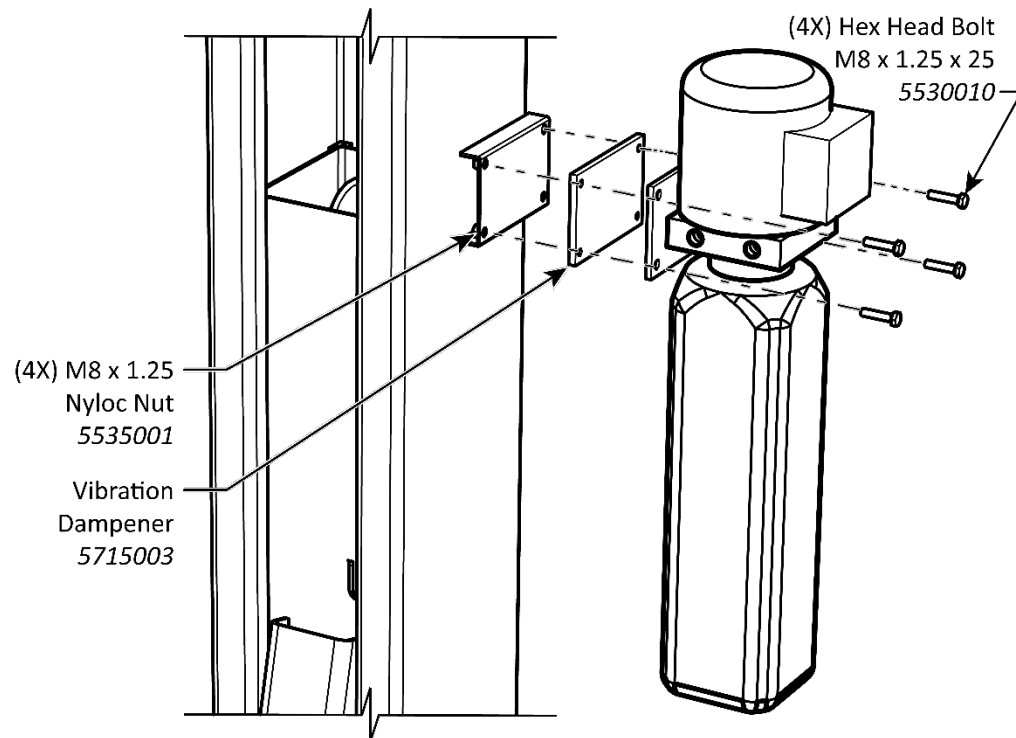
Not to Scale. Components removed for clarity.

Mounting the Power Unit

This section describes how to mount the Power Unit for your Lift. You do **not** need an Electrician to **mount** the Power Unit, but you do need an Electrician to **connect** the Power Unit.

Important: Do not connect the Power Unit to the Hydraulic System or to the power source at this point in the installation; those connection will be made later.

The Power Unit **must** be mounted on the Mounting Bracket on the Powerside Post.



To mount the Power Unit to the Powerside Post:

1. Find the supplied M8 hardware and the Vibration Dampener.
2. Carefully remove the Power Unit from the shipping material.

CAUTION The Power Unit is heavy. BendPak recommends having one person hold the Power Unit while a second person bolts it into place.

3. Position the Vibration Dampener into place next to the Mounting Bracket on the Powerside Post.
4. Move the Mount Plate on the back of the Power Unit next to the Vibration Dampener.
5. Push one of the Bolts through a hole in the Mount Plate, through the Vibration Dampener, and into the Mounting Bracket; attach a Nut to the thread end of the Bolt, then tighten the Nut.
6. Repeat Step 4 for the other three Bolts and Nuts.

Connecting the Hydraulic Hoses

Some of the Hydraulic Lines were put into place much earlier in the installation. It is now time to finish routing and installing them.

This section covers:

- Connecting the Elbow Fitting that connects to the Power Unit.

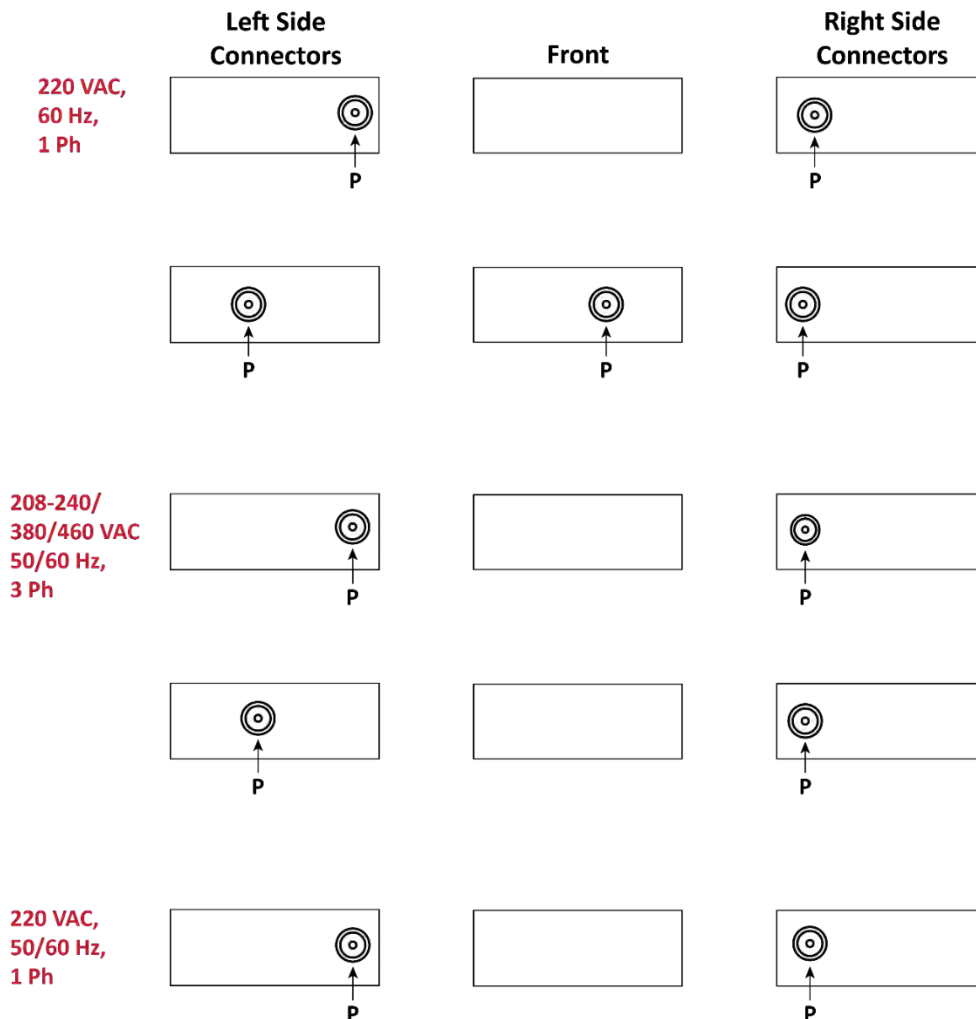
The following procedure assumes the Hydraulic Lines were put into position earlier in the installation. Refer to [Routing Hydraulic Lines](#) for more information. If they were **not** put into position earlier, you must do so now, **before** beginning the following procedure.

To finish connecting the Hydraulic Lines:

1. Locate the Short Hydraulic Line and the remaining Elbow Hydraulic Fitting.
2. **On the Power Unit**, locate a hydraulic pressure out port on the Power Unit (labeled **P**, **P1**, or **P2**), remove the shipping plug. Place a few drops of hydraulic fluid on the O-Ring of the Elbow Hydraulic Fitting (06 ORB to 06 JIC) and install in the P1 or P2 port of the Power Unit.

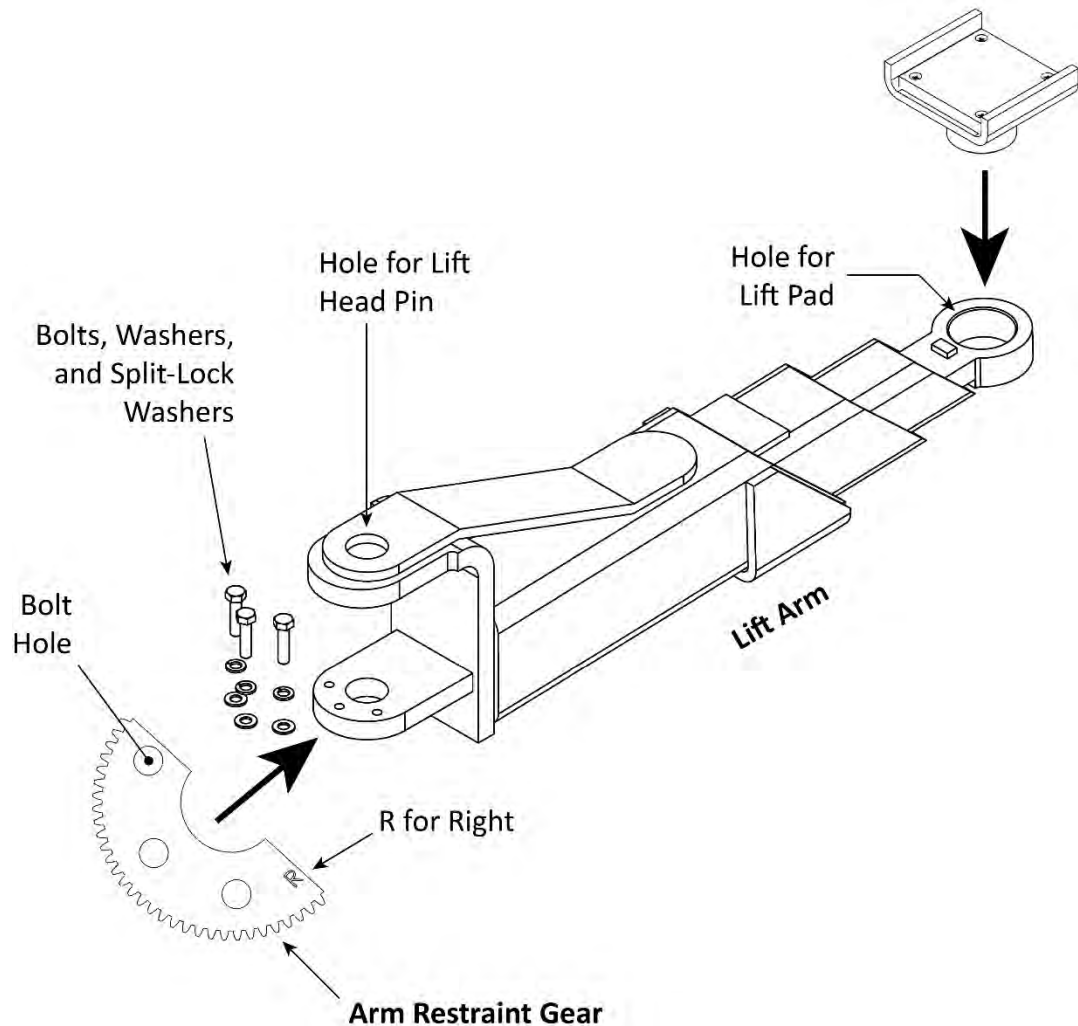
The figure below shows locations of the Hydraulic Pressure Ports on the Power Units that are available for the XPR-9 Series of Lifts.

3. Connect the Hydraulic Hose to the Elbow just installed.



About Arm Restraint Gears

Arm Restraint Gears get installed on each Lift Arm.



The Arm Restraint Gears are intended to hold the Lift Arms in place laterally (once they mesh with the Gear Stops) as the Lift Arm rises from the ground up to where the Lift Pads contact the manufacturer's recommended Lifting Points.

When the Lift is fully lowered, the Arm Restraint Gears are **not** meshed with the Gear Stops on the Lift Head. This allows movement for the Lift Arms to position them correctly under the Vehicle. When the Lift begins to rise, the Arm Restraint Gears mesh with the Gear Stops.

Important: Arm Restraint Gears do not keep the Lift Arms from moving once the weight of the Vehicle is on the Lift Arms. Arm Restraint Gears are designed to maintain the position of **unloaded** Lift Arms up to 150 pounds of horizontal (side to side) force. Put another way, Arm Restraint Gears keep the Lift Arms from moving laterally from just above the ground, when they mesh with the Gear Stops, until the Lift Pads start holding the weight of the Vehicle being raised.

XPR-9 Series Arm Restraint Gears have an R imprinted on one side and an L imprinted on the other side. Before installing an Arm Restraint Gear, determine whether it is going to be a 'left' arm or a 'right' arm (described in [Installing Lift Arms](#)) and install the Arm Restraint Gear accordingly.

Installing Lift Arms

Lift Arms are what contacts the Vehicles to raise them off the ground. Your Lift comes with four Lift Arms.

There are several rules that govern which Lift Arms go where on a particular Lift.

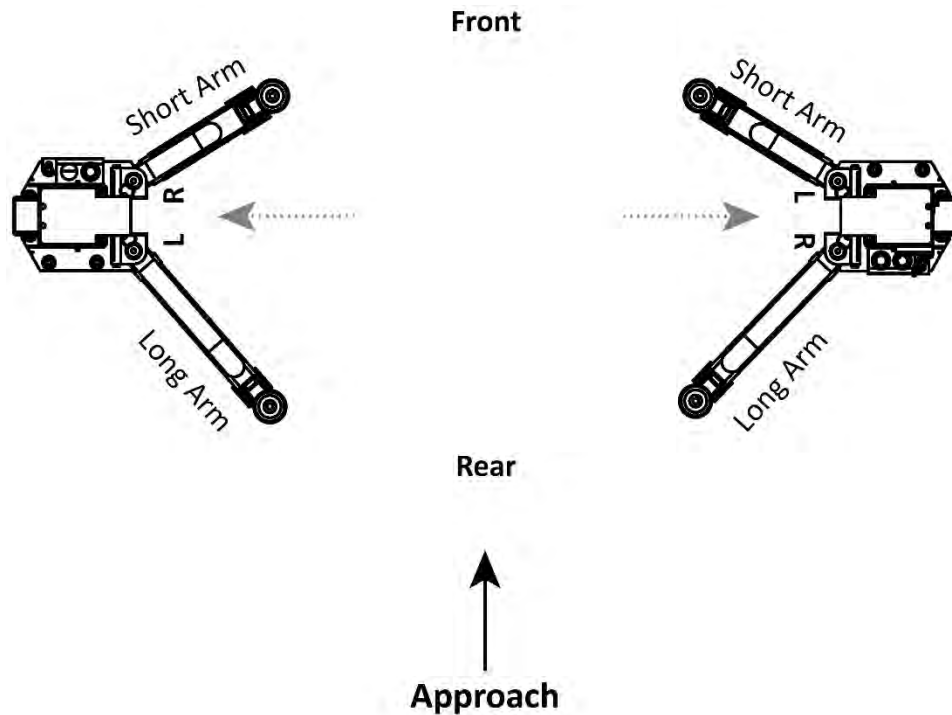
To determine the Front and Rear of the Lift:

- **If you can only drive in one way.** The approach side is the Rear, the other side is the Front.
- **If you can drive in either way.** Choose one side as the Front and the other side as the Rear. The best way to make this decision is to pick one approach direction for the Vehicles you will be putting on the Lift, even though you can drive in either way. Once the decision is made, you approach the Lift from the Rear, so the other side is the Front.

Determine whether the Lift Arm is a 'right' or a 'left'. This is determined separately per Post.

To determine right and left, stand between the two Posts, then turn to face one of them straight on. From this viewpoint, the right side of the Post is the 'right' and the left side of the Post is the 'left'.

After finishing the first Post, repeat the process for the second Post.



The 'left' and 'right' designation comes into play when installing the Arm Restraint Gears on a Lift Arm. Once you install an Arm Restraint Gear on a Lift Arm, that Lift Arm can only be correctly used on the side you specified. For example, if you install an Arm Restraint Gear on a Lift Arm as Left, then it will not work correctly if you put that Lift Arm on the Right side of a Lift Head.

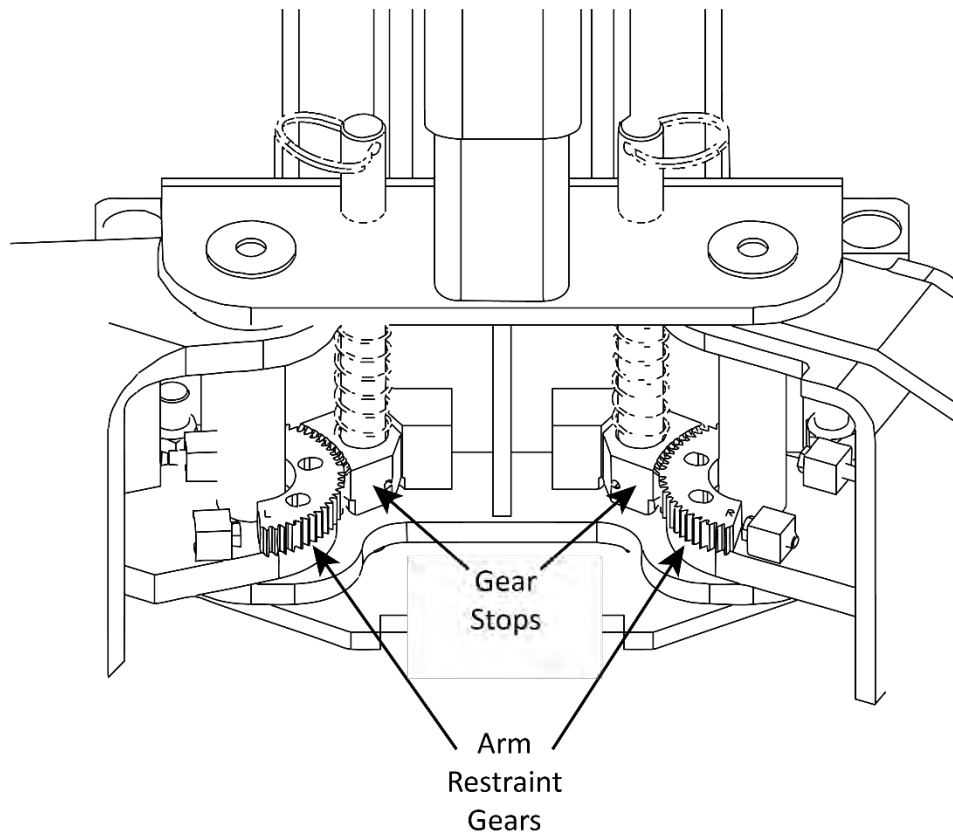
To install an Arm Restraint Gear on a Lift Arm:

1. Find the Lift Arm, Arm Restraint Gear, three Bolts, three Washers, and three Split-Lock Washers.
2. Determine whether the Lift Arm is a 'left' or 'right' Lift Arm.
3. Turn the Arm Restraint Gear so that the L is facing up if the Lift Arm is a 'left' or the R is facing up if the Lift Arm is a 'right'.
4. Put the Arm Restraint Gear into place over the holes in the Lift Arm.
5. Put one of the Split-Lock Washers and Flat Washers onto a Bolt, then push that Bolt down through one of the holes in the Arm Restraint Gear and into the appropriate hole in the Lift Arm.
6. Using an appropriate tool, lightly tighten the Bolt into place.

You want the Arm Restraint Gear to stay in place, but you also want to leave a little play in it. This makes it easier to mesh the Arm Restraint Gear and the Gear Stop when you are installing the Lift Arm into a Lift Head.


7. Repeat Steps 5 and 6 for the other two Bolts.

The Lift Arm is ready to be installed into the Lift Head.



To install a Lift Arm in a Lift Head:

1. Using a forklift or shop crane, raise the desired Lift Head at least three inches off the ground.
You need that room to work.
2. Move the appropriate Lift Arm into place in the Lift Head.
The holes at the end of the Lift Arm need to be inside the Lift Head and lined up with the holes in the Lift Head.
3. Slide a Lift Head Pin through the holes in the Lift Head and the Lift Arm.
The bottom of the Lift Head Pin needs to come out below the bottom hole in the Lift Head.
You may need to move the Lift Arm around a little to fully align the holes so that the Lift Head Pin goes through all of the holes.
4. Push a Snap Ring into its grooves on the bottom of the Lift Head Pin.
5. Make sure the Arm Restraint Gears and the Gear Stop are meshing.
6. When the Arm Restraint Gears and the Gear Stop are meshing, fully tighten the Bolts holding the Arm Restraint Gears to 60 to 70 lb. ft of torque.
7. Extend the Lift Arm as far as it will go and apply approximately 150 pounds of pressure.
The Lift Arms should not move, and the Arm Restraint Gears and the Gear Stop should stay meshed.
If they do not, take the Lift Arm off and start the process again.
8. Repeat these steps for the other three Lift Arms.

 **WARNING** Make sure that the Arm Restraint Gears and the Gear Stops are meshing and staying in place when up to 150 pounds of lateral force is applied before putting the Lift into normal operation.

Contact the Electrician

As mentioned previously, there are installation tasks that require a certified Electrician.

⚠ DANGER All wiring **must** be performed by a licensed, certified Electrician.

The Electrician needs to:

- **Connect to power.** The Power Unit comes with a pigtail for wiring to a power source. Have your Electrician connect a power cord with plug to the electrical box on the Lift (for connection to a power outlet) or have them wire it directly into the electrical system at the Lift location.
- **Connect the Microswitch to the Power Unit.** The Microswitch (which is next to the Safety Shutoff Bar) has to be wired to the Power Unit. The necessary wiring is included.
- **Install a Power Disconnect Switch.** Ensures you can quickly and completely interrupt electrical power to the Lift in the event of an electrical circuit fault, emergency situation, or when equipment is undergoing service or maintenance. You must put it within sight and easy reach of the Lift operator. Refer to **Installing a Power Disconnect Switch** for more information.
- **Install a Thermal Disconnect Switch.** Ensures the equipment shuts down in the event of an overload or an overheated motor. Refer to **Installing a Thermal Disconnect Switch** for more information.

These installation tasks are described in detail in the following sections.

The Electrician is responsible for providing:

- A power cord and appropriate 220 VAC plug for connecting to an appropriate power source or the items required to connect to the facility's power system
- a Power Disconnect Switch
- a Thermal Disconnect Switch

Additional information is supplied in the sections describing these tasks.

Electrical Information

⚠ DANGER All wiring **must** be performed by a licensed, certified Electrician. Do not perform any maintenance until main electrical power has been disconnected from the Lift and cannot be re-energized until all procedures are complete.

Important electrical information:

- Improper electrical installation can damage the Power Unit motor, which is not covered by the warranty.
- The Lift uses electrical energy; if your organization has Lockout/Tagout policies, make sure to implement them after connecting to a power source.
- Use a separate circuit breaker for each Power Unit.
- Protect each circuit with a time delay fuse or appropriate circuit breaker for the power unit in use:
 - 208 to 230 VAC, *single phase* circuit.
 - 208 to 230 VAC, *three phase* circuit.
 - 380 to 440 VAC, *three phase* circuit.

Connecting the Power Unit

The Power Unit and the Microswitch must be connected to an appropriate power source.

⚠ DANGER All wiring **must** be performed by a licensed, certified Electrician in accordance with local and national electrical codes. Do not perform any maintenance or installation on the Lift without first making sure that main electrical power has been disconnected from the Lift and cannot be re-energized until all procedures are complete. The Lift uses electrical energy; if your organization has Lockout/Tagout policies, make sure to implement them after connecting to a power source.

There are several things you need to do to get your Power Unit ready for normal operation:

- Mount the Power Unit to the Powerside Post. Already done, described in **Mounting the Power Unit**.
- Attach the Hydraulic Line to the correct location on the Power Unit. Already done, described in **Routing Hydraulic Lines**.
- Wire the Microswitch. Already done, described in **Wiring the Microswitch**.
- Attach the Power Unit and Microswitch to a power source. Covered in this section.
- Fill the Hydraulic Fluid reservoir. Covered in this section.

Power Units

Your XPR-9 Series Lift is available with one of any of the following types of Power Units:

- **220 VAC, 60 Hz, 1 Phase.** 220 VAC, for North American countries (U.S., Mexico, Canada).
- **208-240/380/460 VAC, 50/60 Hz, 3 Phase.** 3 Phase, multiple voltages available.
- **220 VAC, 50/60 Hz, 1 Phase.** 220 VAC, for countries *outside* North America.

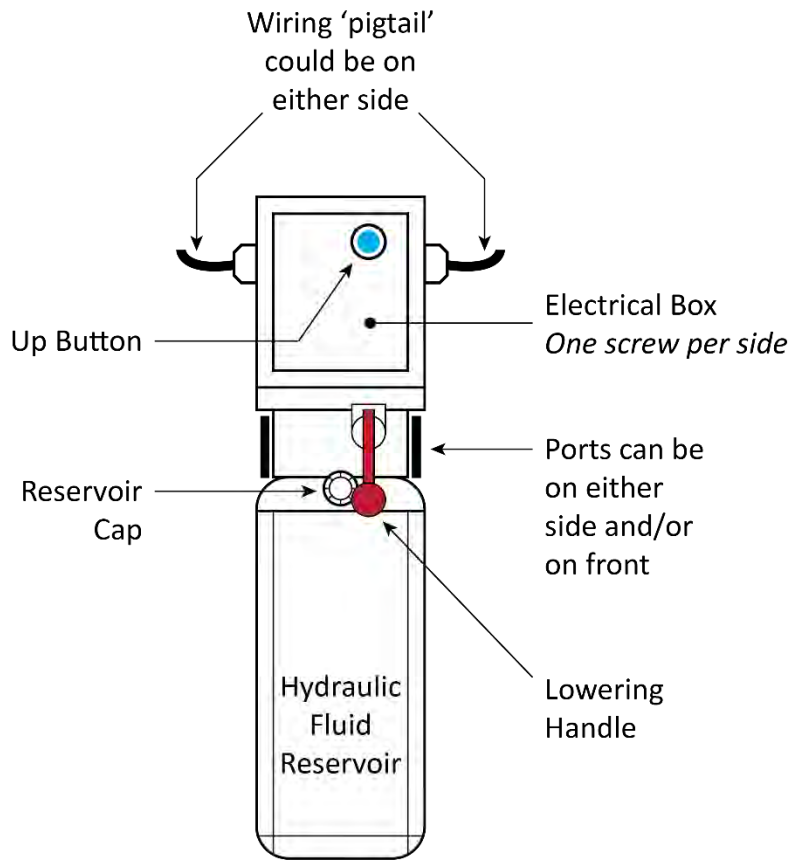
110 VAC Power Units are **not** available for XPR-9 Series Lifts.

Specialized 3 Phase, Low RPM Power Units are also available on request.

Some Power Units are provided by different vendors so there may be minor differences in look and feel. Nevertheless, all Power Units of the same type provide the same level of functionality.

All Power Units come with a 'pigtail' coming out of the Electrical Box. To install your Power Unit, remove the pigtail and connect the Electrical Box to the electrical system at your location or to an appropriate power cord with plug.

The following drawing is a front view of a Power Unit. Your particular Power Unit may look somewhat different based on what type you purchased.



Not to scale. Your Power Unit may be slightly different.

Note: The Up Button shown in the drawing above could be in a different location on the unit or could be a switch instead of a button, depending on the Power Unit you have.

Make clear to your Electrician that all electrical work **must** conform to applicable local, state, and federal codes, rules, and regulations, such as state and federal OSHA regulations and electrical codes.

To prepare the Power Unit:

1. Have the Electrician locate the Pigtail coming out of the Electrical Box on the Power Unit.
2. Open the Electrical Box, remove the Pigtail, and then either:
 - Wire the Power Unit directly into the facility’s electrical system.
 - Wire a power cord (with appropriate plug) *inside the Electrical Box* to the wiring that was connected to the Pigtail.

Wiring information is either on the outside of the Power Unit under the Electrical Box or inside the cover of the Electrical Box. Have the Electrician use that wiring information to wire the Power Unit to the power source.

3. Fill the Hydraulic Fluid reservoir with approved Hydraulic Fluid.

The reservoir holds ≈3.5 gallons of Hydraulic Fluid, depending on which Power Unit you have.

When you receive the Power Unit, the reservoir is empty; you need to fill it.

Approved Hydraulic Fluids are any general-purpose ISO-32, ISO-46, or ISO-68 hydraulic oil or approved automatic transmission fluids such as Dexron III, Dexron VI, Mercon V, Mercon LV, Shell Tellus S4 / S3 / S2, or any synthetic multi-vehicle automatic transmission fluid.

 **WARNING** Do not run the Power Unit without Hydraulic Fluid; you will damage it.

Important electrical information:

- Improper electrical installation can damage the Power Unit motor; this damage is **not** covered by the warranty.
- Use a separate circuit breaker for each Power Unit.
- Protect each circuit with a time-delay fuse or circuit breaker appropriate for the Power Unit in use.
 - 220 VAC, single phase circuit.
 - 208-230 VAC three phase circuit.
 - 380 or 440 VAC three phase circuit.
- As you require an Electrician on site to connect the Power Unit to a power source, you might also want to have them install the Power Disconnect Switch and the Thermal Disconnect Switch on the same visit.

 **DANGER** **Risk of explosion.** This equipment has internal arcing or parts that may spark and should not be exposed to flammable vapors. The Power Unit's Motor should not be located in a recessed area or below floor level. Never expose the motor to rain or other damp environments; damage to the motor caused by water is not covered by the warranty.

Installing a Power Disconnect Switch

⚠ WARNING A Power Disconnect Switch is not provided with this equipment.

A Power Disconnect Switch is a National Electrical Code (NEC) requirement. They are designed to interrupt main electrical power in the event of an electrical circuit fault, emergency situation, or when equipment is undergoing service or maintenance.

Make sure to install a Power Disconnect Switch that is properly rated for the incoming power source.

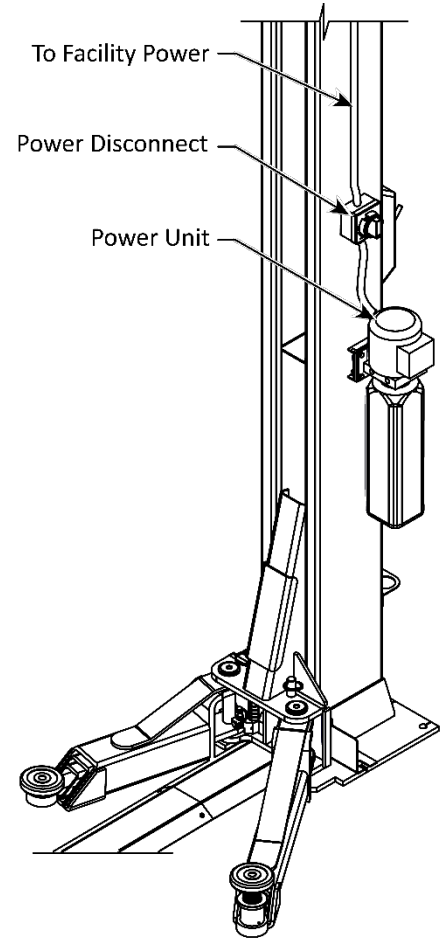
Your Power Disconnect Switch must be readily accessible and installed so that it is in easy reach of the operator or in their line of sight. The Power Disconnect Switch must be clearly marked to indicate its purpose.

The figure to the right shows a Power Disconnect Switch located between the Lift's power source and its Power Unit. A quick flip of the switch immediately cuts power to the Lift.

In the case of your Lift, the location directly above the Power Unit is being used by the Lowering Handle, so your Electrician may want to move the Power Disconnect Switch location up a little.

⚠ DANGER Installing a Thermal Disconnect Switch **must** be performed by a licensed, certified Electrician.

Have the Electrician select a **UL-listed** Power Disconnect Switch.



Installing a Thermal Disconnect Switch

⚠ WARNING Your Lift motor has **no** thermal overload protection.

Have the Electrician connect a motor Thermal Disconnect Switch or overload device that will make sure the equipment shuts down in the event of an overload or an overheated motor.

⚠ DANGER Installing a Thermal Disconnect Switch **must** be performed by a licensed, certified Electrician. Do not perform **any** maintenance or installation on the Lift without first making sure that main electrical power has been disconnected from the Lift and **cannot** be re-energized until all procedures are complete.

High running amps that exceed the motor's full load amps (FLA) rating may result in permanent damage to the motor.

BendPak strongly recommends you **not** exceed the rated duty cycle of the Lift motor.

Leveling

Before operating your Lift, verify the Lift Posts are perpendicular to the ground and the Lift Arms are level:

- **Lift Posts:** The Posts **must** be the same distance apart at the top and at the bottom.

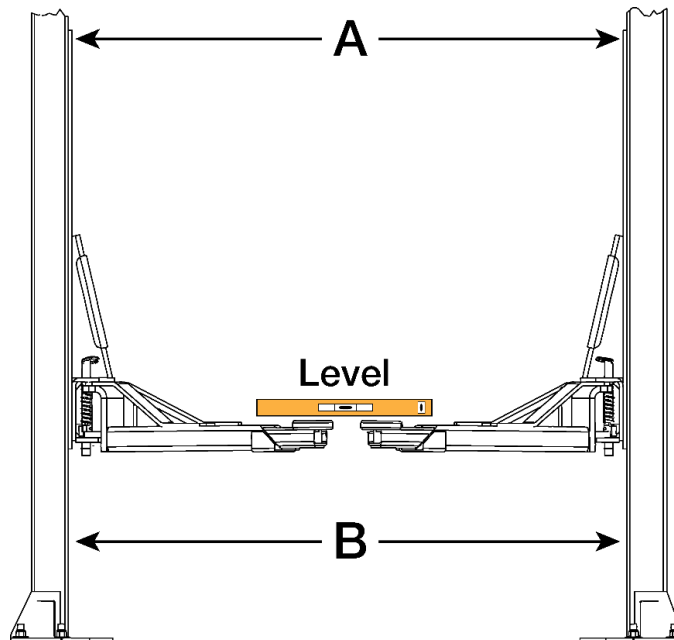
To make sure the Posts are straight, measure the distance between the posts at one foot off the ground (you will need to move the Lift Arms out of the way) and near the top of the posts. The two measurements (**A** and **B** in the drawing below) must be the same.

If the Posts are not straight, shim them as required.

- **CAUTION** If your Lift Posts are not straight or your Lift Arms are not level, this is a safety risk. The Vehicles you put on the Lift will be less secure; they could fall and cause injuries or damage to the Vehicle or to the Lift.

- **Lift Arms:** When the Lift Posts are straight, verify the Lift Arms are level. To make sure they are level, raise them to the first locking position and put a level on the Pads.

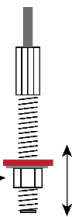
Adjust the Equalizing Cables to correct any out of level condition. Determine which Lift Arm is low, then adjust the Nut on the bottom of the Threaded End of the Equalizing Cable until the Lift Arms are level. When you believe the Lift Arms to be level, raise the Lift and listen for the Lift Heads hitting the Safety Locks (there is a distinct thump). What you want is for the thumps to be simultaneous or close to it.



A and B distances must be the same. If they are not, shim Posts until they are.

Pads must be level. If they are not, adjust Equalizing Cables until they are.

Adjust Nut up or down to equalize Lift Heads and Pads



Installing the Safety Covers – XPR-9TF only

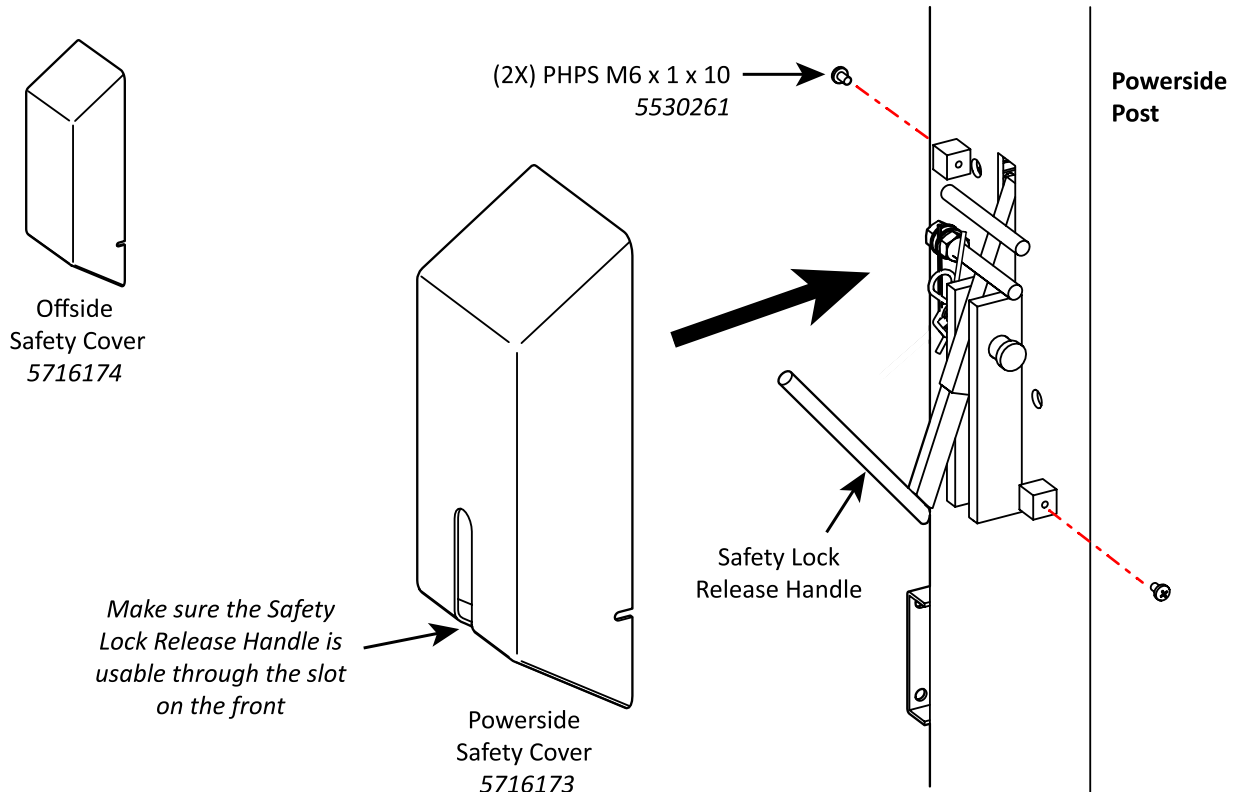
There are two Safety Covers, one for each Safety Assembly, on the outside of each Post.

Refer to [Installing the Safety Assemblies and the Safety Lock Cable](#) for more information about installing the Safety Assemblies.

The Safety Covers are **not** interchangeable:

- The Offside Safety Cover can be installed in either orientation. It does not have a slot.
- The Powerside Safety Cover can only be installed in one orientation: there is a slot on the front for the Safety Lock Release Handle.

Both Safety Covers connect to their Posts via blocks in the upper left and lower right corners.



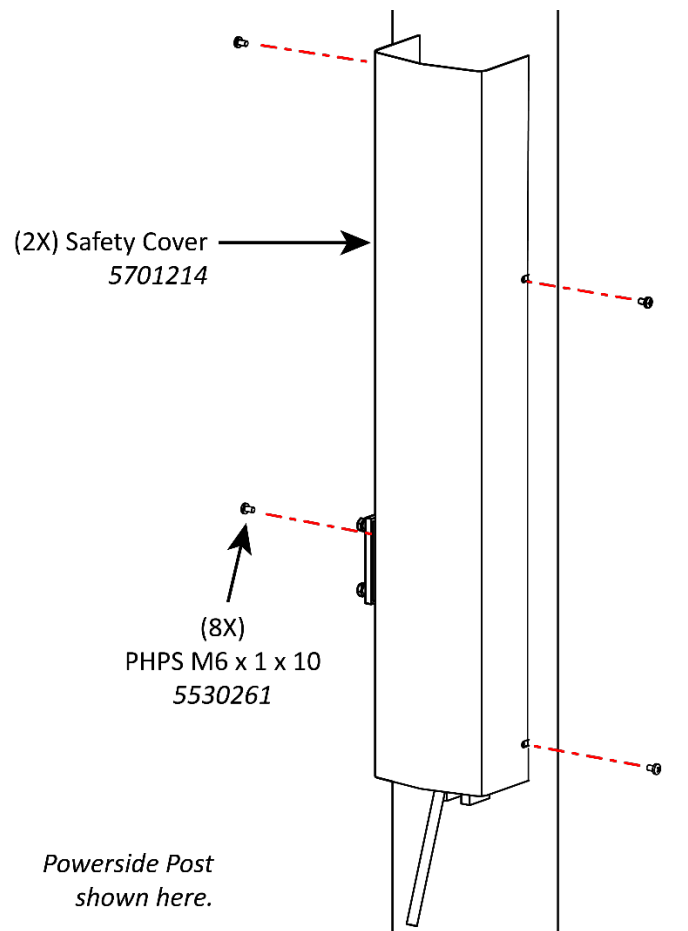
To install the XPR-9TF Safety Covers:

1. Locate the two Safety Covers and four Cover Screws.
2. **On the Offside Post**, install the Cover Screws in each block, making sure to leave enough space between the Block and the Cover Screws to slide in the Safety Cover.
3. Slide the Offside Safety Cover for the Offside Post into position, then fully tighten both Cover Screws into their blocks so that the Safety Cover is held securely.
4. **On the Powerside Post**, install the Cover Screws in each block, making sure to leave enough space between the Block and the Cover Screws to slide in the Safety Cover.
5. Slide the Powerside Safety Cover for the Powerside Post into position, then fully tighten both Cover Screws into their blocks so that the Safety Cover is held securely.
6. Fully tighten both Cover Screws into their blocks so that the Safety Cover is held securely.

Installing the Safety Covers – XPR-9SBT only

The XPR-9SBT Safety Covers are identical and can be installed in either orientation.

Both Safety Covers connect to their Posts via blocks in the upper left and lower right corners.



To install the XPR-9SBT Safety Covers:

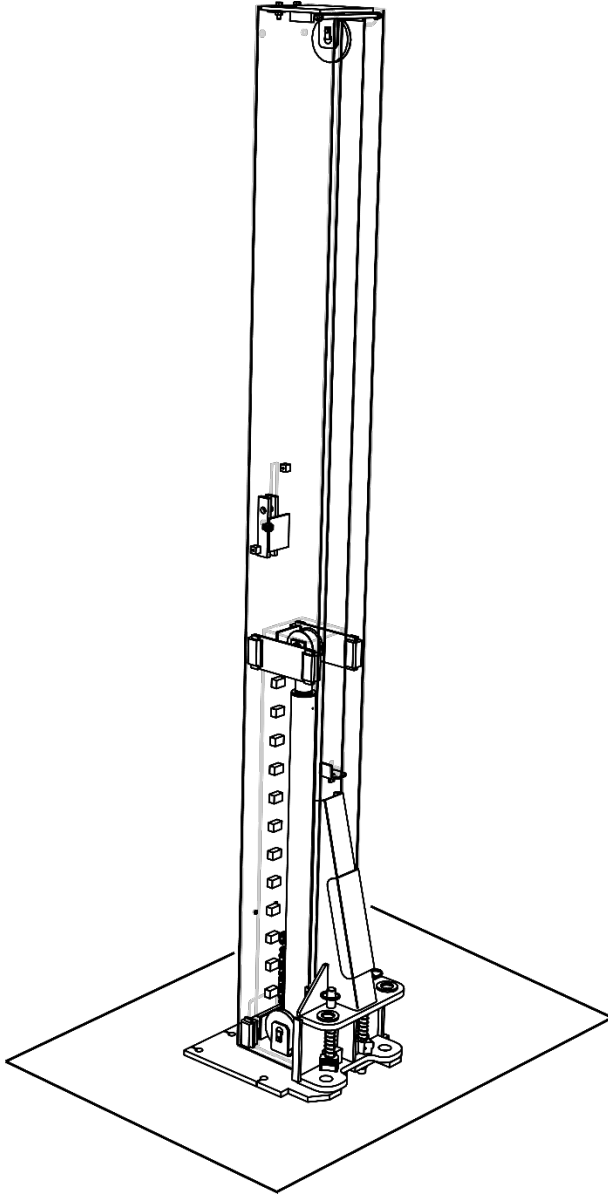
1. Locate the two Safety Covers and eight M6 Cover Screws.
2. **On the Offside Post**, install the Cover Screws in each block, making sure to leave enough space between the Block and the Cover Screws to slide in the Safety Cover.
3. Slide the Offside Safety Cover for the Offside Safety into position, then fully tighten all Cover Screws into their blocks so that the Safety Cover is held securely.
4. **On the Powerside Post**, install the Cover Screws in each block, making sure to leave enough space between the Block and the Cover Screws to slide in the Safety Cover.
5. Slide the Powerside Safety Cover for the Powerside Post into position, then fully tighten all Cover Screws into their blocks so that the Safety Cover is held securely.
6. Fully tighten all Cover Screws into their blocks so that the Safety Cover is held securely.

Lubricating the Lift

Your Lift better and longer if you keep the Posts lubricated.

Lubricate the following:

- Cable sheave pins, with WD-40 or equivalent.
- The four inside corners of both Posts, with white lithium grease.



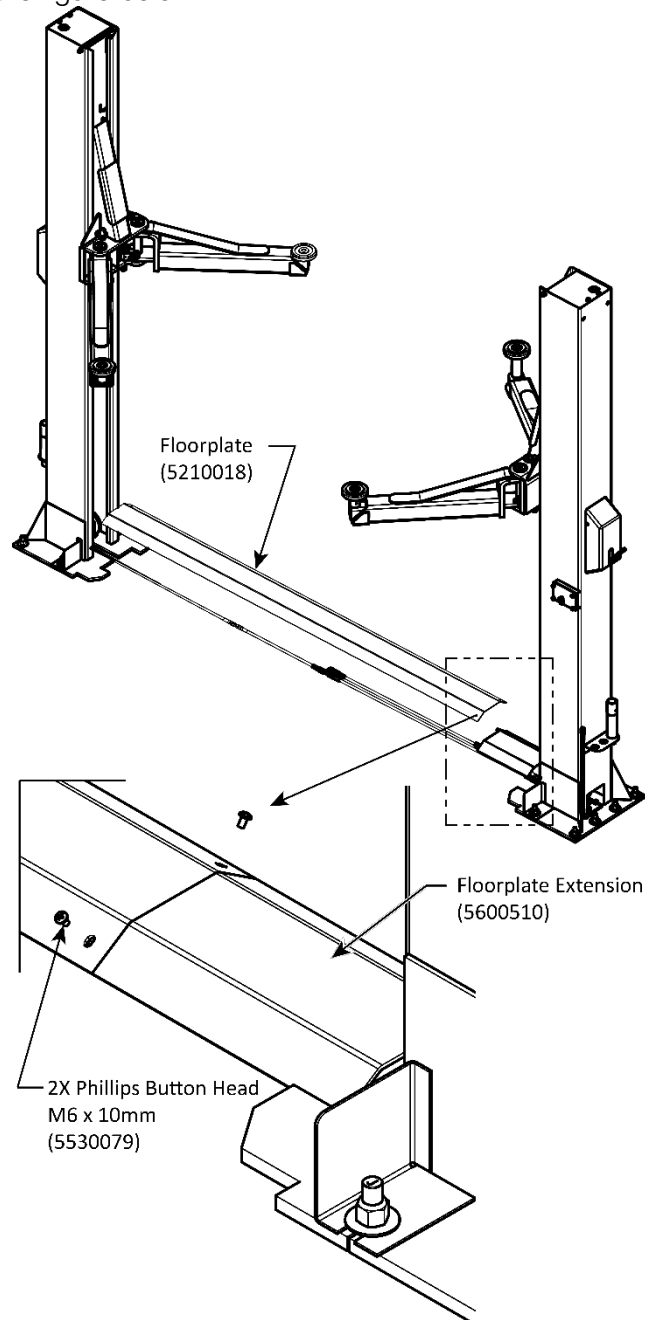
Install the Floorplate XPR-9SBT Only

The Floorplate protects the Hydraulic Hoses, their connections, and the Equalizing Cables. The **XPR-9SBT** uses three Floorplates (5210018) dropped into the recessed concrete. The Floorplates should be roughly flush with the top of the Concrete Pour and require no fasteners.

Install the Floorplate XPR-9TF Only


The Floorplate protects the Hydraulic Hoses, their connections, and the Equalizing Cables. The **XPR-9TF** uses one long Floorplate (5210018) for the **narrow configuration**. The Floorplate is mechanically captured between the Lift Post Base Plates and requires no fasteners.

The **XPR-9TF** in the **wide configuration** requires an extension (5600510) and two fasteners (5530079) as detailed in the figure below.




Perform an Operational Test

Before putting your Lift into normal operation, we recommend raising and lowering it several times with a typical Vehicle on the Lift. This will help you get a feel for how to operate the controls and help get any residual air out of the Hydraulic System (sometimes called “bleeding” the system).


 **DANGER** Automotive Lifts are dangerous tools when used by inexperienced or impaired technicians. When you even hear the words “automotive lift,” your brain should automatically register the fact that lifting a vehicle is a serious endeavor with life-threatening risks if mandatory lifting precautions are ignored.

During the Operational Test, check for proper installation and operation. Do not raise any additional Vehicles until a thorough Operational Test has been done with a typical Vehicle.

 **WARNING** **Never raise a Vehicle whose weight exceeds the rated capacity of the Lift.** Do not leave the controls until the Lift is engaged on its Safety Locks. Only trained personnel should raise or lower the Lift.

To perform an Operational Test:

1. Follow the instructions in **Raising a Vehicle** and **Lowering a Vehicle** to safely raise and lower a Vehicle on the Lift.

 **WARNING** Be sure to follow the instructions carefully when it comes to contacting the manufacturer’s recommended Lifting Points on the underside of the Vehicle. If you do not, the Vehicle could become unstable and fall, which could damage the Vehicle, damage the Lift, and injure or even kill anyone under the Vehicle.

2. Adjust the Lift Arms under the Vehicle so the Adapters are **directly under** the Lifting Points for the Vehicle you are raising.

If necessary, use the included Auxiliary Adapters for extra height.

3. Raise the Lift until **just before** the Adapters contact the Lifting Points.
4. Check the Arm Restraint Gears on all four Lift Arms to make sure they are engaged.

If they are not engaged, move the Lift Arms back and forth until they engage.

5. Raise the Lift until the tires of the Vehicle are a few inches off the ground.
6. Check to make sure all four Adapters are making solid contact with the Lifting Points.

If any of the Adapters are **not** making solid contact with the Lifting Points, carefully lower the Lift and start over again; the Adapters **must** make solid contact with the Lifting Points.

7. Raise the Vehicle approximately three feet (one meter) off the ground, then lower it back down.

Watch and listen as the Lift raises and then lowers. The Lift may move erratically or make some odd noises the first couple of times you use it; this is normal.



Tip

Residual air in the Hydraulic System can cause the Lift to shake, move erratically, or squeak; this is normal when you first start using the Lift. It will soon stop doing this, as the Hydraulic System is self-bleeding.

8. Wait for one minute.

NOTICE The Power Unit is not a constant duty motor; **it cannot be run continuously.**

-
9. Repeat the process, this time raising the Lift, engaging it on a Safety Lock position, taking it off the Safety Lock position, and then lowering it back down to the ground.

Again, follow the instructions in **Raising a Vehicle** and **Lowering a Vehicle** to safely raise and lower a Vehicle on the Lift, including engaging it on its Safety Locks.

10. If the Lift is working without shaking, moving erratically, or squeaking, there is no need to repeat the procedure.

If the Lift is shaking, moving erratically, or squeaking, repeat the procedure one more time.

If you continue to have issues, refer to **Troubleshooting** for assistance.

11. When the Lift is on the ground and the Vehicle is on all four tires, move the four Lift Arms to their full drive-through positions.

12. Drive the Vehicle out.

13. With no Vehicle on the Lift Arms, press and hold the Up button on the Power Unit.

The Lift Arms start rising.


Review Final Checklist Before Operation

Make sure these things have been done before putting the Lift into normal operation:

- Review the **Installation Checklist** to make sure all steps have been performed.
- Verify the Power Unit is getting power from the power source.
- Check the Hydraulic Fluid reservoir; it must be full of approved Hydraulic Fluid or automatic transmission fluid. **You can harm the motor by running it without enough fluid.**
- Check the Hydraulic System for leaks. Verify all Hydraulic Hose connections, Hydraulic Fittings, and Auxiliary Port Plugs on the Lift and Power Unit are tight.
- Verify both Posts are plumb, shimmed, and stable.
- Check to see that all Anchor Bolts are correctly torqued.
- Apply white lithium grease to the inside of the Posts where the Slide Blocks move.
- Make sure both Threaded Rods are in place and tightened near the top of both Posts.
- Verify all Cables are properly positioned in their Sheaves.
- Verify all Cable Sheave retaining pins and/or clips are secure.
- Make sure both Safety Assemblies are connected and working normally.
- Make sure that all Safety Locks are clear and free.
- Make sure an Operational Test has been done.
- Leave the *Installation and Operation Manual* with the owner/operator.

Operation

This section describes how to operate your Lift.


 **DANGER** Automotive Lifts are dangerous tools when used by inexperienced or impaired technicians. When you even hear the words “automotive lift,” your brain should automatically register the fact that lifting a vehicle is a serious endeavor with life-threatening risks if mandatory lifting precautions are ignored.

Lift Operation Safety Rules

Important: Your safety is dependent on reading, understanding, and implementing these Safety Rules. **Do not skip over them; read them carefully and follow them!**

Do the following before you raise or lower a Vehicle on your Lift:

- **Check the Lift.** Check the Lift for any missing, heavily worn, or damaged parts. Do not operate the Lift if you find any issues; instead, take it out of service, contact your dealer, email support@bendpak.com, or call **(800) 253-2363**, extension 196.
- **Check the area.** Keep the area around the Lift clean and free of obstructions; anything that could cause a problem for the Lift. Do not forget to check **above** the Lift. If you find an obstruction, move it out of the way. Do not allow any people or animals within 30 feet of the Lift while it is in motion.
- **Check the operators.** Make sure that everyone who is going to operate the Lift has been trained in its use, has read the labels on the unit, and has read the manual. Only the operator should be within 30 feet of the Lift when it is in motion. Do not allow children to operate the Lift. Do not allow anyone under the influence of drugs or alcohol to operate the Lift.
- **Check for safety.** Make sure everyone who is going to be walking near the Lift is aware of its presence and takes appropriate safety measures. Only put Vehicles on the Lift Arms. **When raising a Vehicle on the Lift, do not leave it until it is positioned on Safety Locks.** When lowering the Lift, do not leave it until it is on the ground.
- **Check the Vehicle.** Never exceed the Lift’s weight rating. Do not allow people inside a Vehicle you are going to raise. Make sure the Vehicle is not overbalanced on either end. Make sure you know the manufacturer’s recommended Lifting Points for the Vehicle. Never raise just one side, one corner, or one end of a Vehicle.

 **WARNING** Always use care when you are around your Lift. When it is in a lowered position, be careful not to trip over it. When it is raised, be careful not to strike your head on the Lift Arms or the Vehicle. **When you are raising or lowering a Vehicle, keep all people, animals, and objects at least 30 feet away from the Lift.**

About Lifting Points, Adapters, and Auxiliary Adapters

An important note to keep in mind when using a frame-engaging Lift is that the raised Vehicle must be balanced on the four Lift Arms. If the Vehicle is not balanced, it is more likely to become unstable and slide off the Lift, possibly damaging the Lift, the Vehicle, and anything under the Lift, including injuring people.

⚠ WARNING You **must** use all four Lift Arms when raising a Vehicle. Never use just one, two, or three Lift Arms to raise a Vehicle. The Vehicle will be unstable and could slip off the Lift, possibly damaging the Lift, damaging the Vehicle, and injuring anyone under it.

To balance a Vehicle on a frame-engaging Lift, you need to have the Adapters (also called Pads) contact the Vehicle on the manufacturer's recommended Lifting Points. When you raise a Vehicle by its Lifting Points, the Vehicle is balanced.

NOTICE The manufacturer's recommended Lifting Points do not take into consideration any major changes that might have been made to the Vehicle. If the motor is removed, for instance, or there is a 5,000 pound / 2,268 kg weight in the trunk, the Vehicle's Lifting Points will not be the best balancing points.

Some Vehicles have indicators on the underside that identify the Lifting Points; many do not.

Your best approach is to find the Vehicle in the guide provided with your Lift. *Vehicle Lifting Points for Frame Engaging Lifts* or contact the manufacturer of the Vehicle. This guide also includes a page of safe lifting suggestions, which everyone who uses the Lift should read.

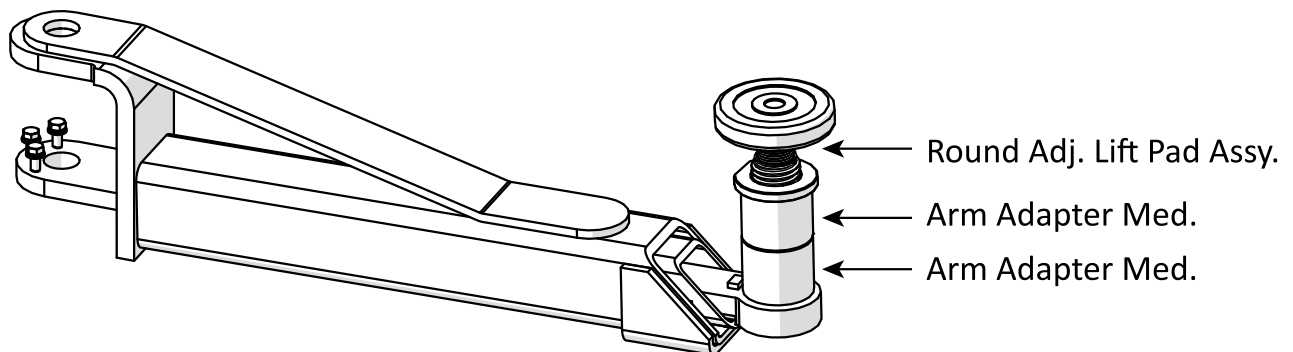
Lifting it Right: A Safety Manual from the Automotive Lift Institute, also provided with your Lift, includes a wide variety of information about Lifts and how to use them safely.

⚠ DANGER **Never** place Contact Pads on non-approved, non-load holding Sill Covers or Side Skirts!



The Adapters and Auxiliary Adapters (also called height adapters or extenders) supplied with every 10AP Series Lift include:

- **Four Screw Lift Pads Assemblies** (5215704). Best suited for Vehicles with Unibody constructions; they are also adjustable up to 3 in.
- **Four Short Auxiliary Adapters - 2.25 in. / 56 mm** (5746007). Allows you to position the height of your Auxiliary Adapters to make better contact with Vehicles.
- **Four Medium Auxiliary Adapters - 2.5 in. / 63 mm** (5746192). Allows you to position the height of your Auxiliary Adapters to make better contact with Vehicles.



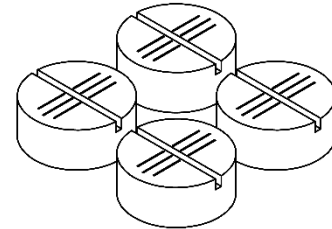
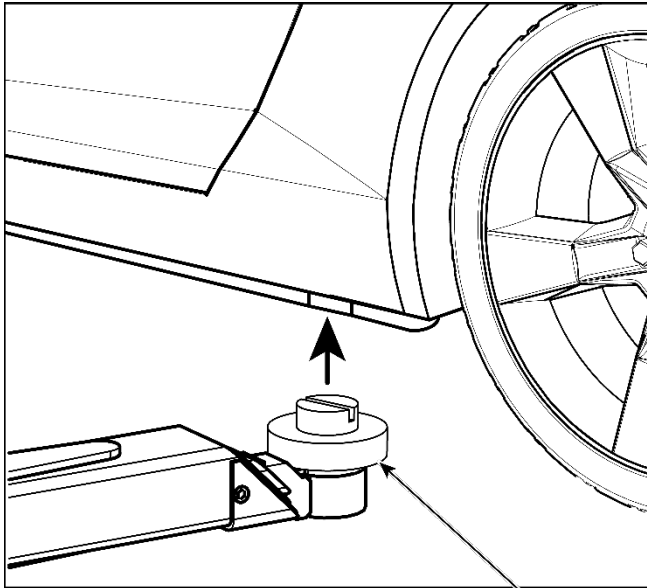
Accessories

⚠ WARNING You can stack Auxiliary Adapters, but only up to 9 in. If you stack Auxiliary Adapters above 9 in., the Vehicle could become unstable and slip off the Lift, possibly damaging the Lift, damaging the Vehicle, and injuring anyone under it.

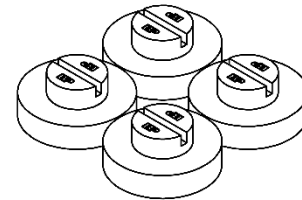
⚠ WARNING Use the correct Adapters. Do not attempt to lift trucks or other frame type vehicles with standard Rubber Contact Pads.

⚠ WARNING Never use the Lift with missing or damaged rubber Contact Pads. Always replace Rubber Contact Pads when worn or damaged.

Quick-Fit Slotted Pinch-Weld Pucks or Pads — Always use slotted Pinch-Weld Pucks (5210263) or slotted Pinch-Weld Pads (5210254) when lifting Vehicles on Manufacturer Approved Pinch-Weld Jacking Points. These convenient tear-resistant urethane Adapters simply fit over the existing round Contact Pads.



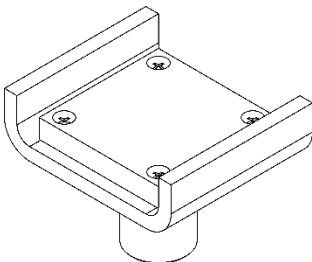
5210254 Set of 4 Slotted Pads



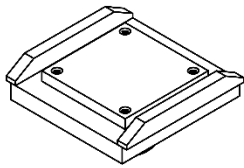
5210263 Set of 4 Slotted Pucks

✓ Always use slotted Pads or Pucks when lifting Vehicles on OEM-approved Pinch Weld Jacking Points.

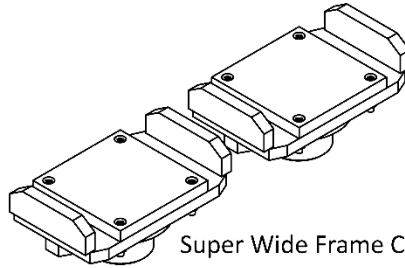
Frame Cradle Adapters — Required for use when lifting trucks, vans or other frame Vehicles that require additional stability. (5215761) Set of 4.



Wide Frame and Super Wide Frame Cradle Adapters — Recommended for use when lifting heavy-duty wide frame vehicles. **Wide Frame** version fits frames up to 5.25 in. / 133 mm (5215828). **Super Wide Frame** version fits frames up to 6.5 in. / 168 mm (5210253) set of 2.



Wide Frame Cradle Adapter



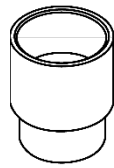
Super Wide Frame Cradle Adapter

SUV and Van Adapters — Recommended for Trucks, SUVs, and Vans that require additional lifting height.

56 mm (5746007)

63 mm (5746192)

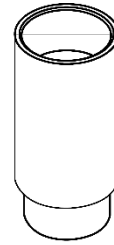
125 mm (5746193)



56 mm

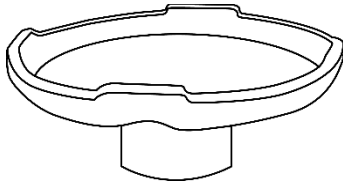


63 mm

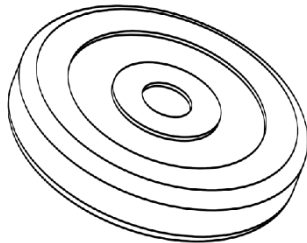


125 mm

Steel Lift Pads — Recommended for additional stability on all vehicles. The flanged edges grip the chassis for an extra-secure hold. (5215692)




Replacement Polyurethane Tuf Pads™ - Never use your Lift with missing or damaged Rubber Contact Pads. Always replace Pads when worn or damaged. (5715017)



You may contact BendPak for accessories and replacement Parts information at **(800) 253-2363**, extension 191; please have the model and serial number of your Lift available.

Raising a Vehicle


This section describes how to raise a Vehicle on your Lift.

-  **WARNING** Never raise a Vehicle whose weight exceeds the rated capacity of the Lift. Do not leave the controls until the Lift is engaged on a Safety Lock position or fully lowered. Only trained personnel should raise and lower the Lift.


To raise a Vehicle on the Lift:

1. Make sure all four Lift Arms are on the ground in their full drive-through positions.
2. Check under the Vehicle you are going to raise, check for the type of vehicle frame, and then put the most appropriate Adapters on the Lift Arms.

If you are lifting a sedan or a Vehicle with a unibody construction, a Screw Lift Pad is generally the best choice. If you are lifting an SUV, truck, or other Vehicle with a frame construction, a Frame Cradle Pad is generally the best choice.

-  **WARNING** Always use the Adapter type best suited for the Vehicle you are raising. If you use the wrong Adapter type, the Vehicle could become unstable.

3. Drive the Vehicle in.

-  **CAUTION** When driving a Vehicle into position, keep to the middle of the area between the Posts. If you hit a Lift Arm or any other portion of the Lift, you could damage the Vehicle and/or the Lift.


4. When you are satisfied with the location of the Vehicle, put it in park, put on the parking brake, and turn off the motor.


If the Vehicle is a manual transmission, put it into first gear before turning off the motor.

5. Get out of the Vehicle; open the doors carefully to avoid banging them on the Lift.
6. Locate the manufacturer's recommended Lifting Points for the Vehicle you are raising.

If you are unsure where the Lifting Points are, consult Vehicle Lifting Points for Frame Engaging Lifts, which was provided with the Lift, or the manufacturer of the Vehicle. If you no longer have Vehicle Lifting Points for Frame Engaging Lifts, contact BendPak Support email support@bendpak.com or call (800) 253-2363 ext. 196, to secure a replacement copy.

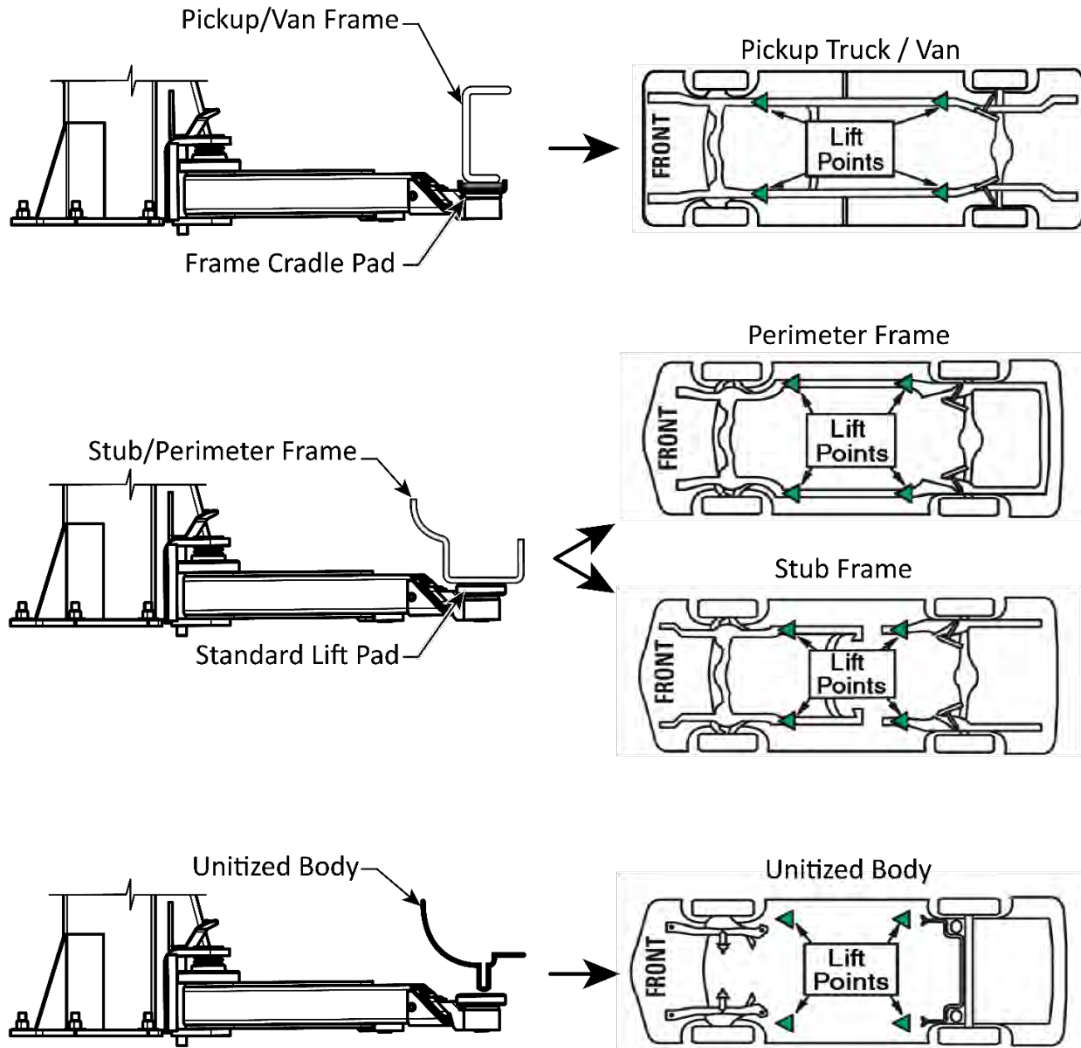
Some vehicles may have the manufacturers' recommended Service Garage Lift Point locations identified by a triangle mark on the underside of the vehicle, reference SAE J2184-(Current Edition). On some vehicles, specific Lifting Points are indicated by a label located on the driver's side door jamb.

-  **WARNING** Do not 'eyeball' the best location for the Adapters. **You must use the manufacturer's recommended Lifting Points.** If you do not, the Vehicle could become unstable and fall, which could damage the Vehicle, damage the Lift, or injure or even kill anyone under the Vehicle.

-  **WARNING** Many specialty or modified Vehicles or Vehicles with unusually short or long wheelbases cannot be on raised on a Two-Post Frame Engaging Lift. Contact the Vehicle's manufacturer for Raising or Jacking guidance.

The figure on the next page illustrates typical lifting points based on Vehicle Frame type.


Typical Lifting Points



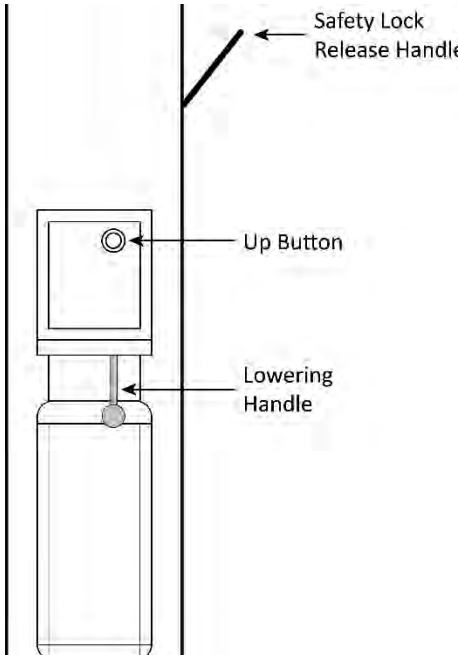
⚠ WARNING **Before** attempting to lift a Vehicle verify:

- The Vehicle Frame is strong enough to support its weight and has not been weakened or compromised by modification, damage, or corrosion.
 - The Vehicle individual axle weight does not exceed one-half the Lift capacity.
 - The Lift Adapters are in secure contact with the Frame at the Vehicle manufacturers' recommended Lift Points.
 - The Vehicle is stable on the Lift and the center of gravity is not shifted making the Vehicle off balance.
7. Adjust the Lift Arms under the Vehicle so the Adapters are **directly under** the Lifting Points for the Vehicle you are raising.
If necessary, use the included Auxiliary Adapters for extra height.
 8. Raise the Lift until **just before** the Adapters contact the Lifting Points.
 9. Check the Arm Restraint Gears on all four Lift Arms to make sure they are engaged.
If they are not engaged, move the Lift Arms back and forth until they engage.

-
10. Raise the Lift until the tires of the Vehicle are a few inches off the ground.
 11. Check to make sure all four Adapters are making solid contact with the Lifting Points.
If any of the Adapters are **not** making solid contact with the Lifting Points, carefully lower the Lift and start over again; the Adapters **must** make solid contact with the Lifting Points.
 12. Rock the Vehicle to verify the Vehicle is stable and balanced.
If the Vehicle is **not** stable and balanced, lower the Lift back to the ground and start over.
If the Vehicle **is** stable and balanced, you can raise it to the desired height.

 **DANGER** Do not raise the Lift further until you are certain the Vehicle on the Lift is both stable and balanced. If the Vehicle is **not** stable and balanced, it could fall, which could damage the Vehicle, damage the Lift, or injure or kill anyone under the Vehicle.

13. Press and hold the **Up** Button.
Listen as the Lift passes the Safety Locks; you should hear each side pass by the Safety Locks at approximately the same time.
14. When the Vehicle reaches the desired height, go past the next Safety Lock position (you will hear the clank as it passes), then release the **Up** Button.
15. Press and hold the Lowering Handle, which lowers the Lift onto the Safety Lock you just passed.
Do not hold the Safety Lock Release Handle; that is for lowering the Lift to the ground.
16. When the Lift stops moving down, it is engaged on its Safety Locks; release the Lowering Handle.
Do not leave the Lift controls unless the Lift is engaged on its Safety Locks or fully lowered.
17. Recheck the Adapters to verify they are all still making solid contact with the Lifting Points.
18. Make sure the Lift is engaged on the same Safety Lock on both Posts. You do not want the Lift engaged on Safety Locks of two different heights or one Safety Lock engaged but the other not.
19. Begin work on the Vehicle.

<p>To raise Lift:</p> <ol style="list-style-type: none"> 1. Press and hold Up Button. 2. When Lift is just past desired height, release Up Button. 3. Press and hold Lowering Handle. <p><i>Do not pull down the Safety Lock Release Handle. If you do, the Lift will continue to lower and will not engage on its Safety Locks.</i></p> <p>Lift engages on its Safety Locks and stops moving; release Lowering Handle when Lift stops.</p> <p><i>Only leave Lift on Safety Locks or fully lowered.</i></p>	 <p>The diagram shows a vertical control panel. At the top is a diagonal handle labeled 'Safety Lock Release Handle'. Below it is a circular button labeled 'Up Button'. At the bottom is a horizontal handle labeled 'Lowering Handle'. A vertical line represents the lift's path.</p>	<p>To lower Lift:</p> <ol style="list-style-type: none"> 1. Press and hold Up Button for two to three seconds. This moves Lift off its Safety Locks. 2. Pull down and hold Safety Lock Release Handle and Lowering Handle. Lift begins lowering. 3. When Lift is fully lowered, release Safety Lock Release Handle and Lowering Handle. <p><i>Only leave Lift on Safety Locks or fully lowered.</i></p>
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Lowering a Vehicle

To lower a Vehicle off the Lift, first raise it a small amount to get it off its Safety Locks, then lower it.

To lower a Vehicle off the Lift:

1. Check under and around the Vehicle to verify the area is clear of all obstructions. If you find any obstructions, move them out of the way.
2. Press and hold the **Up** Button for a second or two to move the Lift off its Safety Locks. Raise the Lift at least two inches to get clear of the Safety Locks.
3. Pull down and hold the Safety Lock Release Handle (on the Powerside Post above and to the right of the Power Unit).
4. Push and hold the Lowering Handle (on the front of the Power Unit).

Important: Both the Safety Lock Release Handle **and** the Lowering Handle must be held down at the same time to lower the Lift.

The Lift begins lowering.

⚠ WARNING Do not override the Lift controls; for safety purposes, they are designed to stop the Lift if released. Overriding the Lift controls could lead to damage to the Lift, damage to the Vehicle on the Lift, or injury (even death) to persons near the Lift.

Remain clear of the Lift as it comes down; obey the pinch point warning decals.

5. When the Lift is on the ground, release both Handles, then move all four Lift Arms to their full drive-through positions.
6. Drive the Vehicle out.

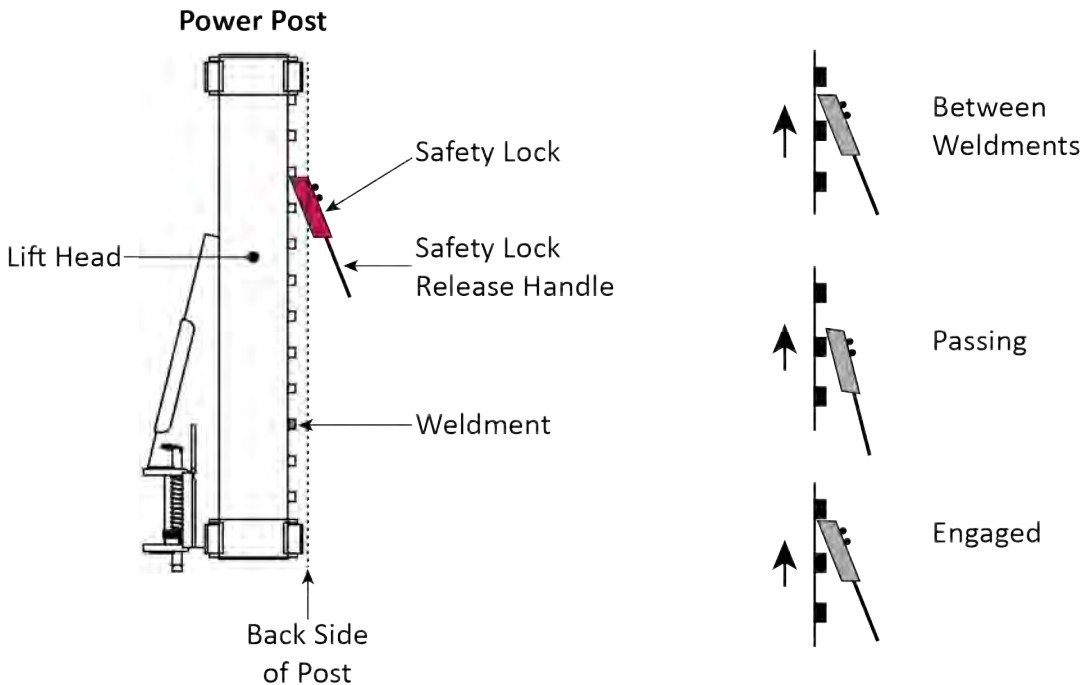
About Safety Locks

Your Lift has multiple Safety Lock positions, allowing you to lock the Lift at the best height for what you need to do.

A Safety Lock **position** is defined as when the Lift is engaged on both of the Lift's Safety Locks at the same height on both Posts.

Important: Always make sure both Safety Locks are engaged at the same height on both Posts. You do not want the Lift engaged on Safety Locks of two different heights or the Safety Lock on one Post engaged but the Safety Lock on the other Post not engaged.

Safety Lock positions are created by the Safety Lock Weldments, which are on the back of each Lift Head. Safety Lock Weldments hit the Safety Locks and then move past them as the Lift Heads rise.




Drawing not to scale. Components removed for clarity. Posts not shown for clarity. Offside Safety Lock not shown.

As they move past the Safety Locks, the Weldments push the Safety Lock and the Safety Lock Release Handle down (the Safety Lock Release Handle is found on the Powerside Post only). When the Weldment is completely past the Safety Locks, the Safety Locks clank back into position between Weldments. This happens each time Safety Locks are passed, so you will generally be hearing multiple clanks as the Lift rises and lowers.

To engage the Lift on a Safety Lock position, wait until the Vehicle reaches the desired height for the work you are going to do, then listen for the clank as the Weldments pass the next Safety Lock position. When you hear the Safety Lock clank, release the Up Button, and then hold down the Lowering Handle (on the front of the Power Unit) for a second or two to back the Weldments down onto the just-passed Safety Locks; **do not** hold down the Safety Lock Release Handle.


⚠ WARNING Only leave the Lift either fully lowered or engaged on Safety Locks. **If you leave the Lift raised but not engaged on Safety Locks, the Vehicle is not secure.** It could fall, possibly damaging the Vehicle, the Lift, and injuring anyone under the Vehicle.

Maintenance


 **DANGER** Before performing any maintenance on your Lift, make sure it is completely disconnected from power. The Lift uses electrical energy; if your organization has Lockout/Tagout policies, make sure to implement them before performing any maintenance. If you come into contact with high voltage/current, you could be injured or killed.

To maintain your Lift:

- **Daily:** Keep the Lift clean. Wipe up any spills, remove any dirt or debris.
- **Daily:** Make a visual inspection of all moving parts and check for damage or excessive wear. Replace any damaged or worn parts before using the Lift.

 **DANGER** Do not use the Lift if the cables are damaged or extremely worn. If a Vehicle is raised when you notice the damage or extreme wear, very carefully lower the Vehicle to the ground. When the Lift is on the ground, remove it from service, disconnect it from power, and make arrangements to have it repaired.

- **Daily:** Make sure Safety Locks are in good operating condition. Do not use your Lift if the Safety Locks are damaged or excessively worn.
- **Weekly:** Check all controls to make sure they are functioning normally.
- **Weekly:** Check all labels on the Lift. Replace them if they are illegible or missing.
- **Monthly:** Lubricate the Posts. We recommend using white lithium grease or similar.
- **Monthly:** Check Hydraulic Fluid levels. Refill if low.
- **Monthly:** Check cable connections, bolts, and pins for proper mounting and torque.
- **Monthly:** Make sure all pivot arm pins are properly secure.
- **Every two months:** Check all Anchor Bolts to make sure they are correctly torqued. If they are not, torque them.
- **Every three to five years or as needed.** Carefully check the Equalizing Cables every three to five years, or immediately if there are signs of damage or extreme wear. See **Wire Rope Inspection and Maintenance** for additional information.

 **WARNING** Do not operate your Lift if you find maintenance issues; instead, remove it from service, then contact your dealer or BendPak Support via the Web at bendpak.com/support, via email at support@bendpak.com, or by phone at **(800) 253-2363**, extension 196.

Wire Rope Inspection and Maintenance

Your Lift's wire rope should be inspected regularly:

- Lifting cables should be replaced when there are visible signs of damage or extreme wear. **Do not use the Lift if it has damaged or worn cables.**
- Lifting cables should be maintained in a well-lubricated condition at all times.

Wire rope is fully protected when each wire strand is lubricated both internally and externally. Excessive wear shortens the life of wire rope. Use a wire-rope lubricant that penetrates to the core of the rope and provides long-term lubrication between each individual strand, such as 90-WT gear oil or ALMASOL® Wire Rope Lubricant.

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 they run freely. This operation should be carried out at appropriate intervals generally not exceeding three months during operation.

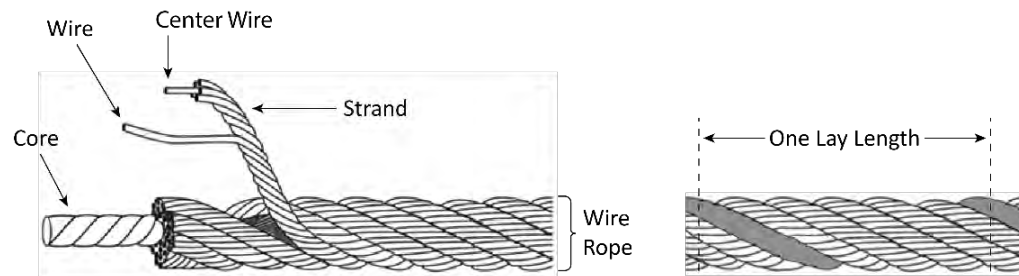
For all sheave axles, use standard wheel bearing grease. For all sheaves and/or guide rollers, use 90-WT gear oil or a similar heavy lubricant, applied by any method including pump/spray dispensing, brush, hand, or swabbing.

- How often should you inspect?

Lifting cables should be visually inspected at least once each day when in use, as suggested by American Petroleum Institute's Recommended Practice 54 guidelines. Any lifting cables that have met the criteria for removal must be immediately replaced.

- When should you 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.



- Are there other reasons to replace your lifting cables?

Yes. 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, or heat damage.

- How do you find broken wires?
 - a. 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.
 - b. Flex the rope to expose any broken wires hidden in the valleys between the strands.
 - c. 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.
 - d. 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.

Troubleshooting

This section describes how to troubleshoot your Lift.

⚠ CAUTION 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.

⚠ WARNING The Lift uses electrical energy; if your organization has Lockout/Tagout policies, make sure to implement them before performing any Troubleshooting.

Issue	Action to Take
Once raised, Lift does not lower.	Verify there is sufficient Hydraulic Fluid in the reservoir. Make sure there is no air in the Hydraulic System. Make sure none of the Hydraulic Hoses are pinched or leaking. Make sure the Power Unit is getting electrical power. If the Hydraulic Fluid is dirty, replace it with clean fluid. Make sure the Lift is not overloaded. Make sure the load on the Lift is balanced. Contact BendPak Support at bendpak.com/support , via email at support@bendpak.com , or by phone at (800) 253-2363 , extension 196.
Lift Head and Arms move erratically or squeak when in use.	Move the Lift Head up and down a few times to flush any residual air from the Hydraulic System.
Lift does not stay up.	Make sure to leave the Lift engaged on its Safety Locks. Check for Hydraulic Fluid leaks.
Vehicle on Lift not level.	Make sure Lift is engaged on Safety Locks at the same height. Make sure the Safety Locks in both Posts are engaged. If either condition is not met, carefully lower the Vehicle back down to the ground and raise it again.
Motor not running.	Check connection to power source; make sure it is plugged in and the appropriate voltage. Check wiring diagram on Power Unit.
Hydraulic Fluid is dirty.	Replace the dirty Hydraulic Fluid with clean, approved ATF fluids, such as Dexron III, Dexron VI, Mercon V, Mercon LV, or comparable.
Lift makes odd noises.	Lubricate hinge points using white lithium grease.

If you continue to have issues with your Lift, take the Lift out of service, then contact your dealer or BendPak Support at bendpak.com/support, via email at support@bendpak.com, or by phone at **(800) 253-2363**, extension 196.

Disposing of Used Hydraulic Fluid

Used Hydraulic Fluid **must not** be disposed of by dropping it into the trash or dumping it into the street. It has toxic ingredients that are harmful to the environment.

Instead, you are required to either recycle it or drop it off at a hazardous waste collection facility.

First, note that there is a difference between dirty and contaminated Hydraulic Fluid:

- **Dirty** means it has been used for some time and it would benefit your equipment if new fluid was used.
- **Contaminated** means it has been mixed with other fluids or other components, rendering it unsuitable for recycling. Contaminated fluid must be treated as hazardous waste.

Dirty fluid should be recycled, which is beneficial to the environment. Contaminated fluid cannot be recycled; it must be disposed of at a hazardous waste collection facility.

Rags and/or granular absorbents that have soaked up Hydraulic Fluid should be treated like hazardous waste and be disposed of at a hazardous waste collection facility.

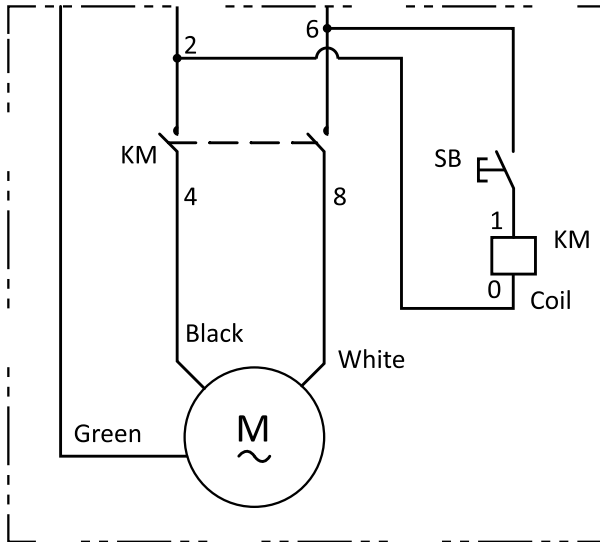
To find an appropriate facility:

- Local automotive parts stores, auto care facilities, or automobile dealerships may accept fluid for recycling or, in some cases, for disposal. Contact them for more information.
- Cities, counties, and states often support both recycling facilities and hazardous waste collection facilities. Contact them to see if and where they have these programs.
- If you have large amounts of fluid, consider contacting a commercial waste disposal company. In all cases, the best approach is to find an appropriate facility and contact them — in advance — to ask them: what kinds of fluids they accept, what kind of containers it must be in, what hours they are open, their location, and any other information specific to their facility.

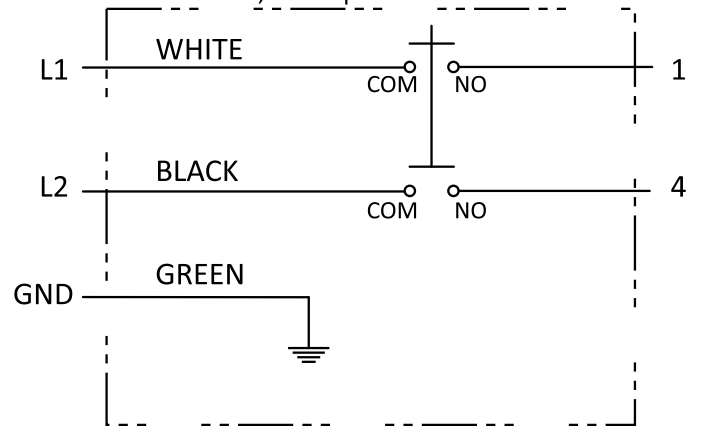
If you are unable to find an appropriate facility, the website [earth911.com](https://www.earth911.com) has resources that may be of help.

Wiring Diagrams

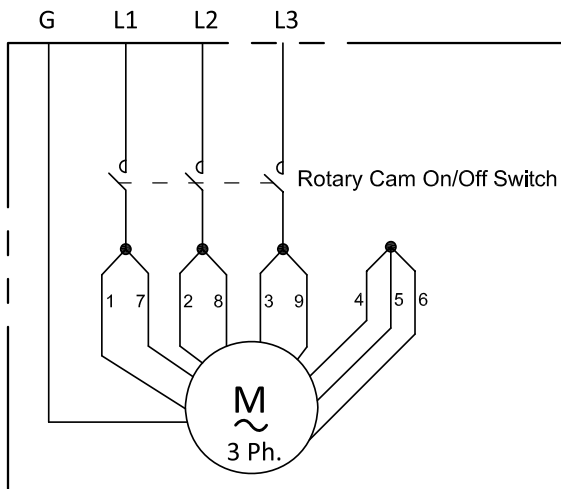
5585454 208-240VAC Single Phase
50/60Hz, 4HP, ≈14Amps



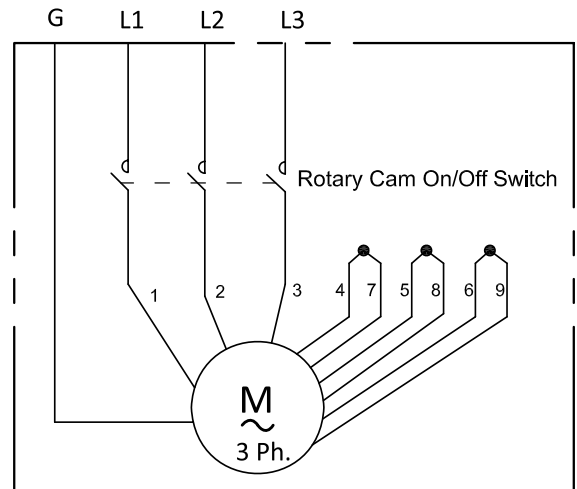
5585181 208-230VAC, Single Phase
50-60Hz, 2HP, ≈7 Amps



5585229 190/208-240/380/460VAC, 3 Ph., 50/60 Hz, 3 HP



Wiring for 190/208-230V



Wiring for 380/460V

Labels



IMPORTANT / **OPÉRATION / ENTRETIEN**
INSTRUCTIONS - PLEASE READ / **INSTRUCTIONS - LISEZ VUS VUS PLAIT**

DANGER

Long-reach vehicles can damage lift vehicles causing personal injury or injury to operators. If loaded horizontally, all vehicles MUST be positioned on lift with CENTER OF GRAVITY midway between adaptors.

Les véhicules à rallonge peuvent endommager l'élevateur et / ou causer des blessures corporelles ou des blessures graves aux opérateurs. Tous les véhicules DOIVENT être placés sur l'élevateur avec le CENTRE DE GRAVITÉ à mi-chemin entre les adaptateurs.

CAUTION / **MISE EN GARDE**

Never lift any vehicle in any manner with POWER line (S) wires. Rated capacity of each lift item is no greater than 75% of the overall lifting capacity.

Ne jamais soulever un véhicule de quelque manière que ce soit avec une ligne de force. La capacité normale de chaque base de levage n'est pas supérieure à 75% du capacité de levage globale.

WARNING / **ATTENTION**

USE PROPER ADAPTERS
 Do not attempt to lift vehicles or other items that are not specifically designed for use on this lift. ALWAYS USE the correct adapter for each vehicle. Always use the correct adapter for each vehicle.

UTILISEZ DES ADAPTATEURS APPROPRIÉS
 Ne tentez pas de soulever des véhicules ou d'autres objets qui ne sont pas spécialement conçus pour être soulevés sur cet élévateur. Utilisez TOUJOURS l'adaptateur approprié pour chaque véhicule. Utilisez TOUJOURS l'adaptateur approprié pour chaque véhicule.

FRAME CHAIR ADAPTERS
 Requires for each chair table, bench, seat or other frame which fits the standard chair.

ADAPTATEURS DE CADRE DE CHAIR
 Nécessaire pour chaque table, banc, siège ou autre cadre qui s'ajuste au siège standard.

WIDE FRAME CHAIRS ADAPTERS
 Requires for use with chairs having a wider frame than standard.

CADRE LARGE ADAPTATEURS
 Nécessaire pour utilisation avec des chaises à cadre plus large que le cadre standard.

SOX & VAN ADAPTERS
 Requires for use with 2005 and newer vans, pickup trucks and SUVs.

VAN & ADAPTATEURS VAN
 Nécessaire pour utilisation avec des camionnettes, des pick-up et des SUV à partir de 2005.

STEEL LIFT PADS
 Use lift pads when lifting on steel surfaces.

TAMPONS DE LEVAGE EN ACIER
 Utilisez des tampons de levage en acier lorsque vous soulevez sur des surfaces en acier.

REPLACEMENT POLYURETHANE TIE PADS
 Replace tie pads if they are worn or damaged.

REPLACEMENT POLYURETHANE TIE PADS
 Remplacez les tampons de liaison en polyuréthane s'ils sont usés ou endommagés.

TO PLACE ORDER / **POUR COMMANDER**
 Visit www.bendpak.com / Lundi - Vendredi
 1-800-951-0070 / 9 am - 4 pm ET / au numéro 1-800-951-0070 / 9 heures - 4 heures PT

WARNING / **ATTENTION**

WIRE ROPE INSPECTOR AND MAINTENANCE
 • All wire ropes should be inspected for wear and damage at least every 6 months or after 5000 hours of use.
 • All wire ropes should be replaced if they are worn, frayed, or damaged.
 • All wire ropes should be replaced if they are damaged by sharp edges or other objects.
 • All wire ropes should be replaced if they are damaged by heat or fire.
 • All wire ropes should be replaced if they are damaged by chemicals or other corrosive materials.
 • All wire ropes should be replaced if they are damaged by excessive bending or twisting.
 • All wire ropes should be replaced if they are damaged by any other factor that could reduce their strength or safety.

LIFT OPERATION / **OPÉRATION DE LEVAGE**

PRELIFT CHECK
 • Before lifting any load, the operator must ensure that the lift is properly set up and that the load is properly secured.
 • The operator must ensure that the load is balanced and that the center of gravity is properly positioned.
 • The operator must ensure that the load is not obstructed by any other objects or structures.
 • The operator must ensure that the load is not lifted above the recommended height.
 • The operator must ensure that the load is not lifted in a manner that could cause damage to the lift or the load.

OPERATION
 • The operator must ensure that the lift is used in a safe and controlled manner.
 • The operator must ensure that the lift is not used to lift people or other loads that are not specifically designed for use on the lift.
 • The operator must ensure that the lift is not used to lift loads that are heavier than the rated capacity of the lift.
 • The operator must ensure that the lift is not used to lift loads that are longer than the rated capacity of the lift.
 • The operator must ensure that the lift is not used to lift loads that are wider than the rated capacity of the lift.

BendPak | 1645 Lemonwood Dr., Santa Paula, CA 91356 | www.bendpak.com

LIFT TYPE: Surface Mount | **MANUFACTURER:** BendPak, See data plate for product details

POWER: Electric/Hydraulic | **INSTALLATION:** See manual or contact factory

Safety Instructions: If attachments, accessories, or configuration-modifying components that are listed in the load chart are used, the lift must be used in strict accordance with the instructions for use for those components. If any of these components are used on this lift, the user must be certified for use on this lift, the use of this lift shall become null and void. Contact the participant for information pertaining to certified attachments, accessories, or configuration-modifying components.

BendPak lifts are supplied with concrete loadstones meeting the criteria as prescribed by ASIM 1-188/ FATHIMA 18-171. However, we are not responsible for any special equipment, modifications, or other International Vehicle Accreditation used on this lift and, if they are not certified for use on this lift, then the certification of this lift shall become null and void. Contact the participant for information pertaining to certified attachments, accessories, or configuration-modifying components.

BendPak lifts are supplied with concrete loadstones meeting the criteria as prescribed by ASIM 1-188/ FATHIMA 18-171. However, we are not responsible for any special equipment, modifications, or other International Vehicle Accreditation used on this lift and, if they are not certified for use on this lift, then the certification of this lift shall become null and void. Contact the participant for information pertaining to certified attachments, accessories, or configuration-modifying components.

The manufacturer, use, sale, or import of this product may be subject to one or more United States patents, or pending applications, owned by BendPak Inc.

Do Not Remove | Engineered by BendPak Inc., USA | PA 590040 | Made in China

DANGER

THE MAXIMUM LIFTING CAPACITY FOR THIS LIFT IS DESCRIBED BELOW

Maximum Lifting Capacity
9,000 lbs. / 4,082 kg

Max. Lifting Cap. / Front of Lift Center
4,500 lbs. / 2,041 kg

Max. Lifting Cap. / Rear of Lift Center
4,500 lbs. / 2,041 kg

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

LA CAPACITÉ DE LEVAGE MAXIMUM POUR CE LEVAGE EST DÉCRIT CI-DESSOUS

Capacité de Levage Maximale
9,000 lbs. / 4,082 kg

Max. Capacité de Levage / Avant du centre de relevement
4,500 lbs. / 2,041 kg

Max. Capacité de Levage / Arrière du centre de levage
4,500 lbs. / 2,041 kg

Le dépassement de la capacité de poids de cet élévateur peut endommager l'ascenseur et / ou les biens et peut causer des dommages corporels, des blessures voire la mort aux opérateurs et / ou aux passants. Tous les véhicules DOIVENT être placés sur l'élevateur avec le CENTRE DE GRAVITÉ à mi-chemin entre les adaptateurs et / ou au centre des pistes. Dommages à soulever dus à la surcharge ou une mauvaise utilisation N'EST PAS couverte par la garantie.

ATTENTION

MAXIMUM LIFTING CAPACITY
CAPACITÉ DE LEVAGE MAXIMUM

9000 Lbs.
4082 Kg.

F

<p>NOTICE</p> <p>Read operating and safety manuals before using lift.</p>	<p>CAUTION</p> <p>Lift to be used by trained operator only.</p>	<p>CAUTION</p> <p>Authorized personnel only in lift area.</p>	<p>WARNING</p> <p>Clear area if vehicle is in danger of falling.</p>	<p>WARNING</p> <p>Position vehicle with center of gravity midway between adapters.</p>
<p>NOTICE</p> <p>Proper maintenance and inspection is necessary for safe operation.</p>	<p>CAUTION</p> <p>Use vehicle manufacturer's lift points.</p>	<p>CAUTION</p> <p>Always use safety stands when removing or installing heavy components.</p>	<p>WARNING</p> <p>Remain clear of lift when raising or lowering vehicle.</p>	<p>WARNING</p> <p>Avoid excessive rocking of vehicle while on lift.</p>
<p>NOTICE</p> <p>Do not operate a damaged lift.</p>	<p>CAUTION</p> <p>Use height extenders when necessary to ensure good contact.</p>	<p>CAUTION</p> <p>Auxiliary adapters may reduce load capacity.</p>	<p>WARNING</p> <p>Do not override self-closing lift controls.</p>	<p>WARNING</p> <p>Keep feet clear of lift while lowering.</p>

G

PLEASE READ

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

PN 5905177

I

NOTICE

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

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H

BP BendPak Santa Paula, CA USA
www.bendpak.com

MODEL NUMBER _____

DESCRIPTION _____

LIFT CAPACITY _____ DATE OF MFG. _____

VOLTAGE	SERIAL NUMBER
<input type="checkbox"/> 110-240VAC, 50-60 Hz, 1 Ph	
<input type="checkbox"/> 208-240VAC, 50-60 Hz, 1 Ph	<input type="checkbox"/> 380-415VAC, 50-60 Hz, 3 Ph
<input type="checkbox"/> 208-440VAC, 50-60 Hz, 3 Ph	UPC

DANGER! Disconnect Power Before Servicing

WARRANTY VOID IF DATA PLATE IS REMOVED PN 5905850

CE EAC

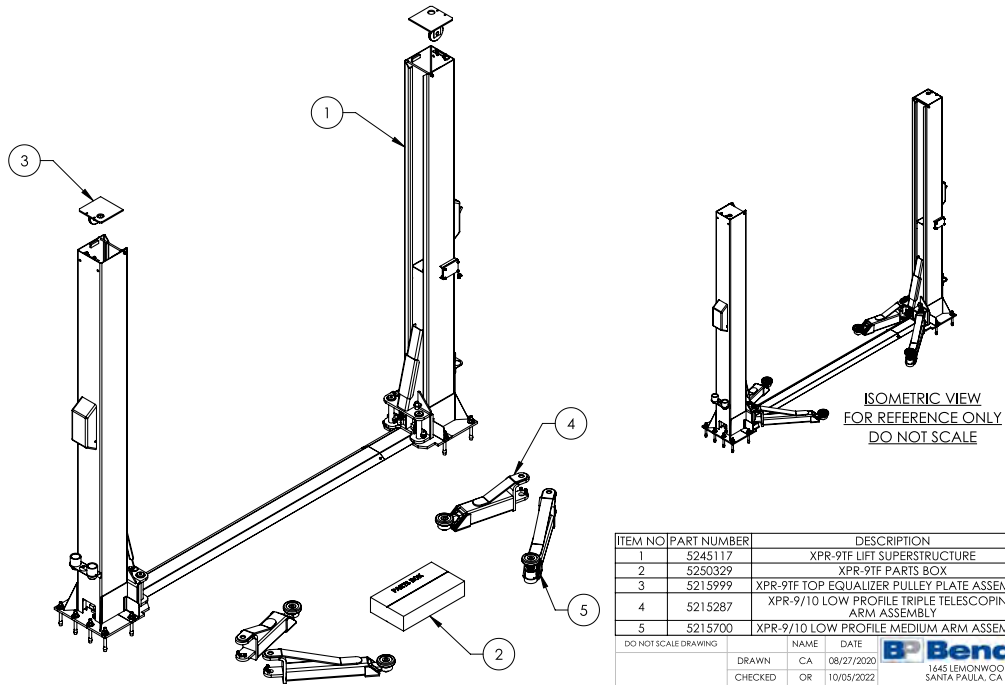
J

<p>TO RAISE LIFT:</p> <ol style="list-style-type: none"> 1. Press and hold UP button. 2. When lift is just PAST desired height, release UP button. 3. Hold down Lowering Handle. DO NOT hold down Safety Lock Release Handle. Lift engages on safety locks. 4. Release Lowering Handle. 	<p>TO LOWER LIFT:</p> <ol style="list-style-type: none"> 1. Press and hold UP button for two to three seconds, moving lift off safety locks. 2. Hold down Safety Lock Release Handle and Lowering Handle. 3. When lift is fully lowered, release both handles.
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PN 5905414

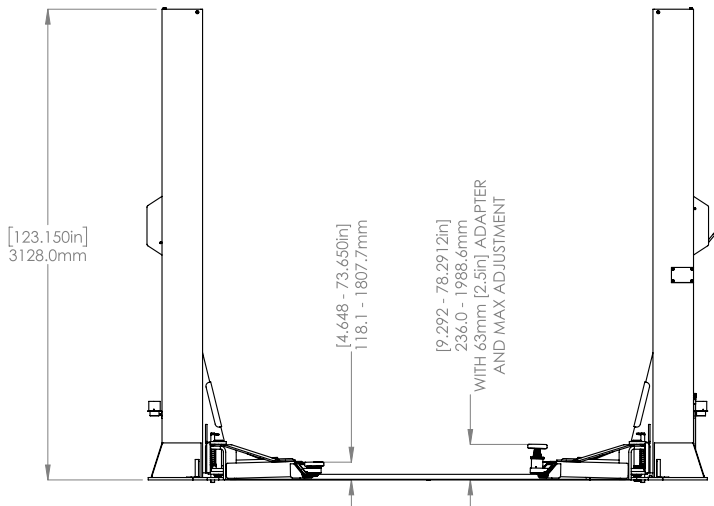
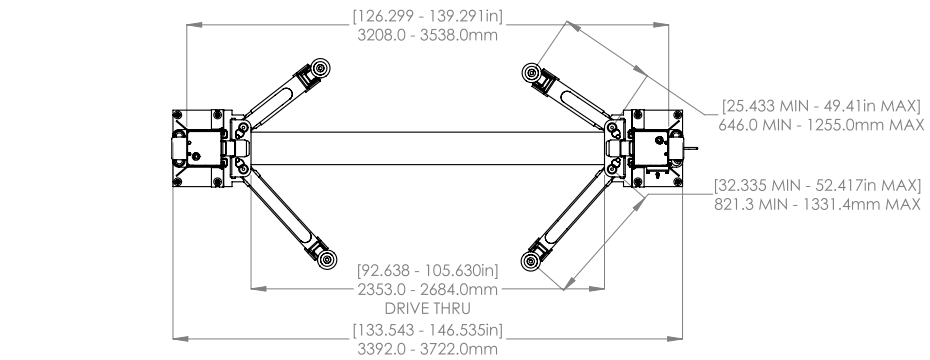


Parts Drawings

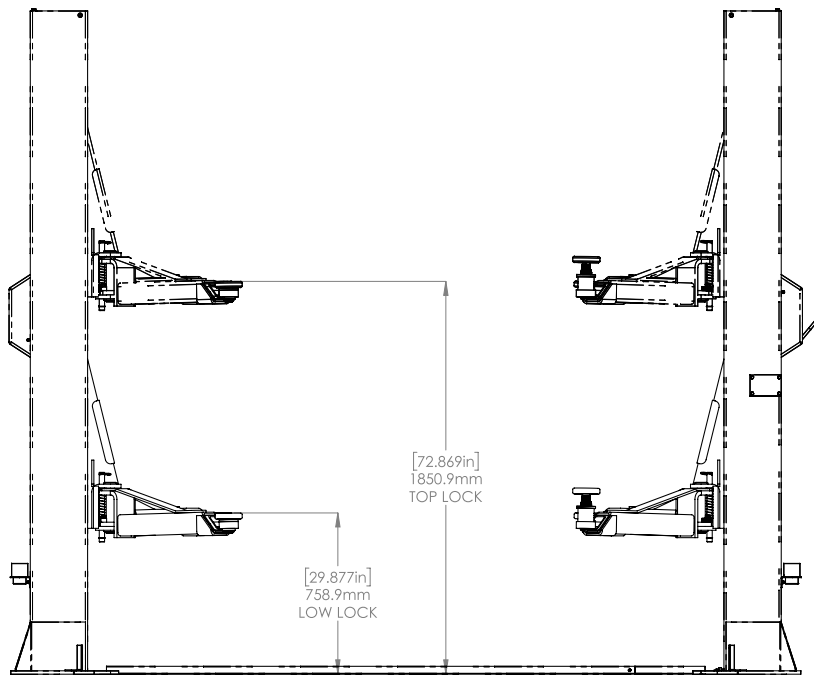


ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5245117	XPR-9TF LIFT SUPERSTRUCTURE	1	C
2	5250329	XPR-9TF PARTS BOX	1	D
3	5215999	XPR-9TF TOP EQUALIZER PULLEY PLATE ASSEMBLY	2	A
4	5215287	XPR-9/10 LOW PROFILE TRIPLE TELESCOPING ARM ASSEMBLY	2	L
5	5215700	XPR-9/10 LOW PROFILE MEDIUM ARM ASSEMBLY	2	K

DO NOT SCALE DRAWING	NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
	DRAWN	CA 08/27/2020	
	CHECKED	OR 10/05/2022	
DIMENSIONS ARE IN MM	THIRD ANGLE PROJECTION		TITLE: XPR-9TF PRODUCTION LIFT VER A
 <small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF BENDPAK INC. AND IS PRESENTED AS PART OF A QUOTE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. ©</small>	SIZE	DWG. NO.	REV
	A	5260636	F
	SCALE: 1:30		SHEET 1 OF 3



 1645 LEMONWOOD DR. SANTA PAULA, CA 93060			
TITLE: XPR-9TF PRODUCTION LIFT VER A			
SIZE	DWG. NO.	REV	
A	5260636	F	
SCALE: 1:30			SHEET 2 OF 3

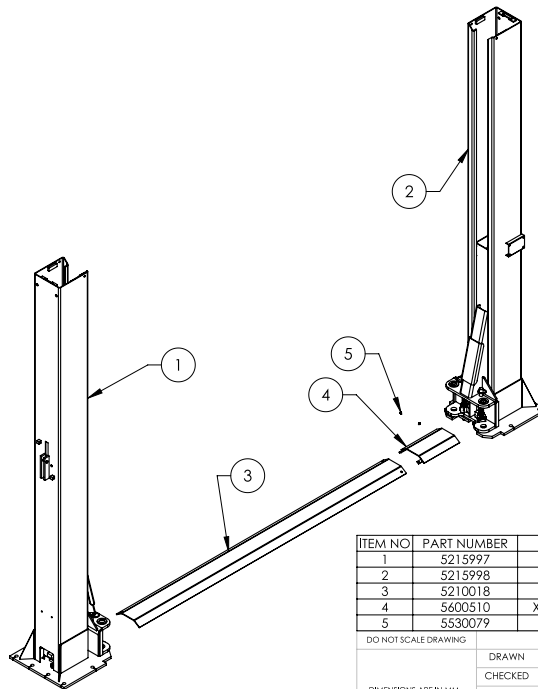
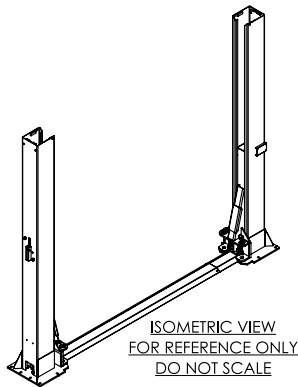


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 SANTA PAULA, CA 93060

TITLE: XPR-9TF PRODUCTION LIFT VER A

SIZE	DWG. NO.	REV
A	5260636	F

SCALE: 1:20 SHEET 3 OF 3



WHERE USED
XPR-9TF

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5215997	XPR-9TF OFF SIDE POST ASSEMBLY	1	C
2	5215998	XPR-9TF POWER SIDE POST ASSEMBLY	1	C
3	5210018	XPR-9 GROUND PLATE	1	D
4	5600510	XPR-9 FLOORPLATE EXTENSION WELDMENT	1	A
5	5530079	BPHS M6 x1.0x10	2	-

DO NOT SCALE DRAWING

DRAWN	NAME	DATE
CA		08/27/2020

CHECKED

THIRD ANGLE PROJECTION

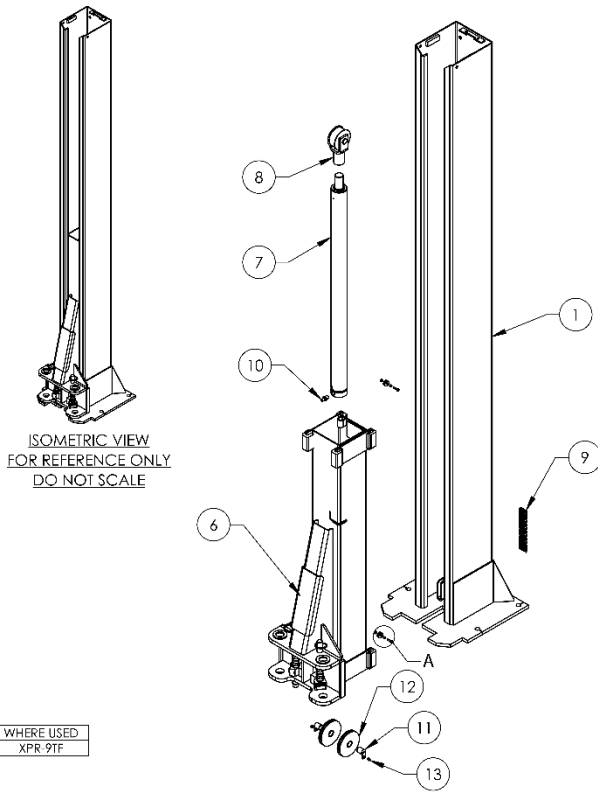
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 SANTA PAULA, CA 93060

TITLE: XPR-9TF LIFT SUPERSTRUCTURE

SIZE	DWG. NO.	REV
A	5245117	C

SCALE: 1:30 SHEET 1 OF 1



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601591	XPR-9TF OFF SIDE POST WELDMENT	1	B
2	5565350	D2/GP/PCL/XPR/PL-7000 SAFETY SHEAVE SPACER	2	C
3	5535357	NUT M6 x 1.0 NL	2	-
4	5530756	HHB M6 x 1.0 x 25mm	2	-
5	5575112	D2/GP/PCL/XPR/PL-7000 SAFETY SHEAVE	2	C
6	5216001	XPR-9TF LIFT HEAD ASSEMBLY	1	C
7	5502047	CYLINDER ASSEMBLY Ø2.5 x 34.5 - Ø1.75 ROD	1	A
8	5210117	D2-8F/XPR-9 CHAIN ROLLER ASSEMBLY	1	G
9	5210251	CYLINDER CHAIN ASSEMBLY 2470mm	1	B
10	5550100	FIG NPL-04 JIC x-06 NPT	1	-
11	5601586	D2-8/XPR-9 CABLE SHEAVE PIN WELDMENT	2	A
12	5575111	D2-8F, XPR-9/10 SHEAVE ASSEMBLY	2	G
13	5530030	HHB M6 x 1 x 8	2	-

DO NOT SCALE DRAWING

DRAWN: CA 08/27/2020
CHECKED: CR 08/17/2022

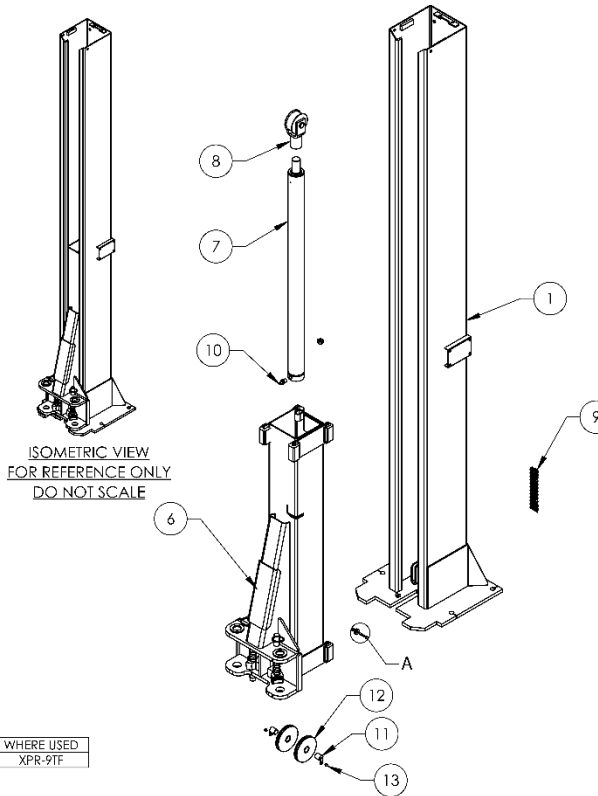
DATE: 08/27/2020

1645 LEMONWOOD DR.
SANTA PAULA, CA 93026

TITLE: XPR-9TF OFF SIDE POST ASSEMBLY

SIZE: A DWG. NO.: 5215997 REV: C

SCALE: 1:20 SHEET 1 OF 1



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601592	XPR-9TF POWER SIDE POST WELDMENT	1	B
2	5565350	D2/GP/PCL/XPR/PL-7000 SAFETY SHEAVE SPACER	2	C
3	5535357	NUT M6 x 1.0 NL	2	-
4	5530756	HHB M6 x 1.0 x 25mm	2	-
5	5575112	D2/GP/PCL/XPR/PL-7000 SAFETY SHEAVE	2	C
6	5216001	XPR-9TF LIFT HEAD ASSEMBLY	1	C
7	5502047	CYLINDER ASSEMBLY Ø2.5 x 34.5 - Ø1.75 ROD	1	A
8	5210117	D2-8F/XPR-9 CHAIN ROLLER ASSEMBLY	1	G
9	5210251	CYLINDER CHAIN ASSEMBLY 2470mm	1	B
10	5550100	FIG NPL-04 JIC x-06 NPT	1	-
11	5601586	D2-8/XPR-9 CABLE SHEAVE PIN WELDMENT	2	A
12	5575111	D2-8F, XPR-9/10 SHEAVE ASSEMBLY	2	G
13	5530030	HHB M6 x 1 x 8	2	-

DO NOT SCALE DRAWING

DRAWN: CA 08/27/2020
CHECKED: CR 08/17/2022

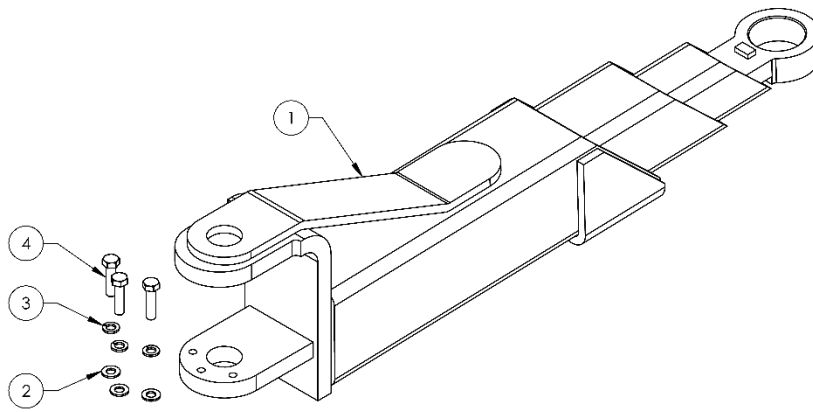
DATE: 08/27/2020

1645 LEMONWOOD DR.
SANTA PAULA, CA 93026

TITLE: XPR-9TF POWER SIDE POST ASSEMBLY

SIZE: A DWG. NO.: 5215998 REV: C

SCALE: 1:20 SHEET 1 OF 1



WHERE USED
XPR-9SBT
XPR-9TF

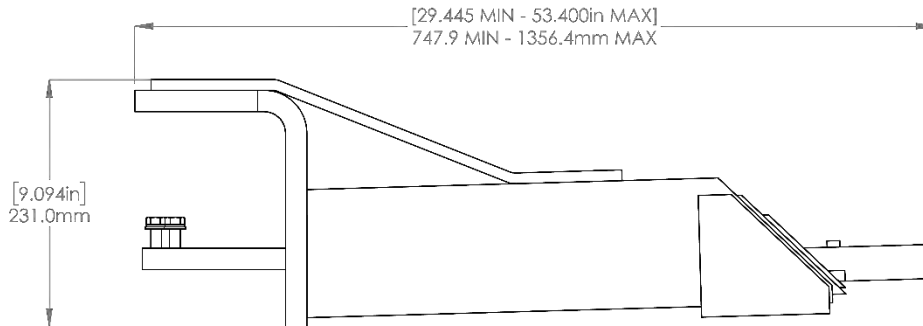
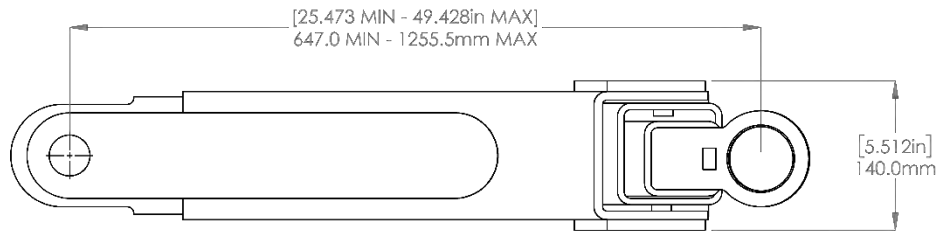
ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5600997	XPR-9/10 LOW PROFILE TRIPLE TELESCOPING ARM WELDMENT	1	K
2	5545341	WASHER M10 x Ø20 FLAT	3	-
3	5545200	WASHER M10 x Ø18 SL	3	-
4	5530302	HHB M10 x 1.5 x 40 FULLY THREAD	3	-

DO NOT SCALE DRAWINGS	NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DRAWN	JM	06/23/2015	
CHECKED	OR	04/17/2020	TITLE: XPR-9/10 LOW PROFILE TRIPLE TELESCOPING ARM ASSEMBLY SIZE: A DWG. NO.: 5215287 REV: L

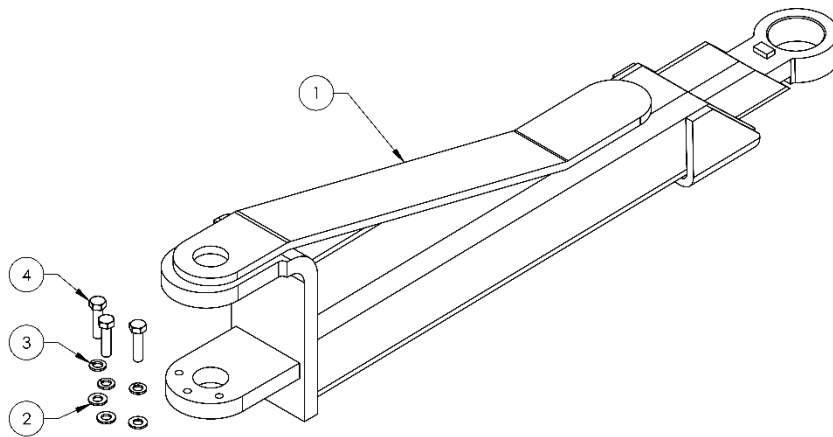
THIRD ANGLE PROJECTION

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SCALE: 1:5 SHEET 1 OF 2



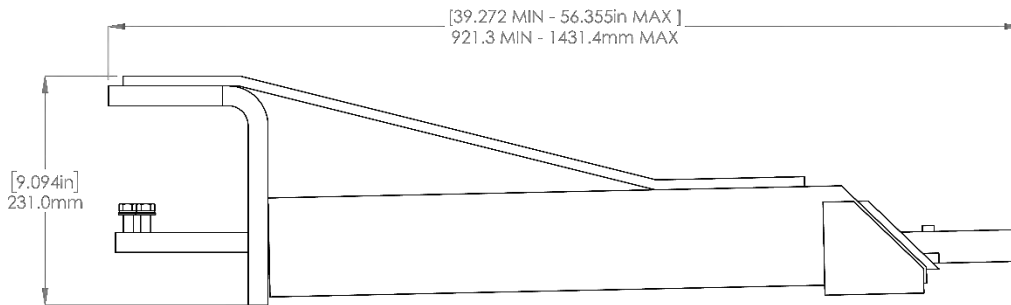
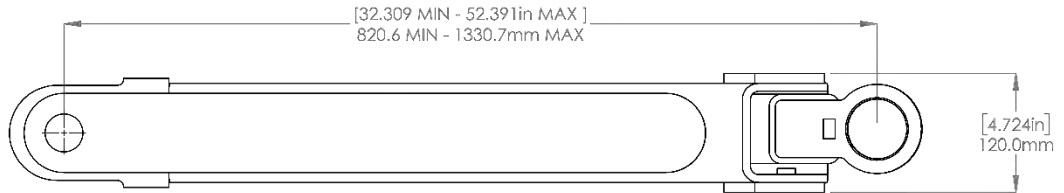
 1645 LEMONWOOD DR. SANTA PAULA, CA 93060			
TITLE: XPR-9/10 LOW PROFILE TRIPLE TELESCOPING ARM ASSEMBLY			
SIZE: A	DWG. NO.: 5215287	REV: L	
SCALE: 1:5			SHEET 2 OF 2



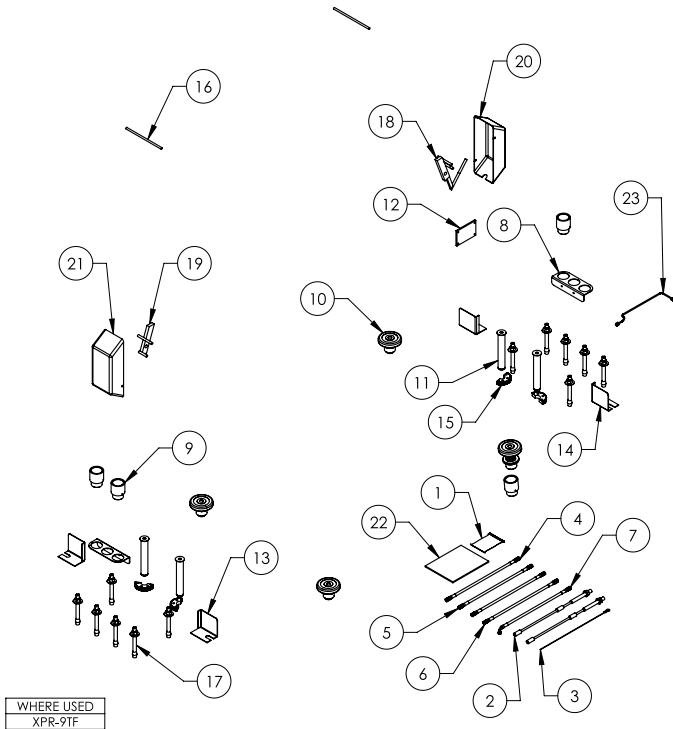
WHERE USED
XPR-9TF
XPR-9SBT

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600998	XPR-9/10 LOW PROFILE MEDIUM ARM WELDMENT	1	J
2	5545341	WASHER M10 x Ø20 FLAT	3	-
3	5545200	WASHER M10 x Ø18 SL	3	-
4	5530302	HHB M10 x 1.5 x 40 FULLY THREAD	3	-

1:10 NOT SCALE DRAWING	NAME	DATE	 1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DIMENSIONS ARE IN MM	DRAWN	JM	
	CHECKED	OR	04/17/2020
	THIRD ANGLE PROJECTION		
PROPRIETARY AND CONFIDENTIAL ALL RIGHTS RESERVED. THIS DRAWING IS THE PROPERTY OF BENDPAK INC. ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE.			SIZE: DWG. NO. REV A 5215700 K
			SCALE: 1:5 SHEET 1 OF 2



 1645 LEMONWOOD DR. SANTA PAULA, CA 93060			
TITLE: XPR-9/10 LOW PROFILE MEDIUM ARM ASSEMBLY			
SIZE: DWG. NO.	REV		
A 5215700	K		
SCALE: 1:5			SHEET 2 OF 2



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5174051	D2-8F/XPR-9 PARTS BAG	1	A
2	5595746	CABLE ASSEMBLY Ø10 x 10050mm DBST	2	B
3	5595124	Ø2.4 x 7400mm SAFETY CABLE	1	C
4	5570194	HYDRAULIC HOSE ASSEMBLY Ø6.35 x 1240mm DS	1	C
5	5570103	HYDRAULIC HOSE ASSEMBLY Ø6.35 x 1359mm DS	2	E
6	5570176	HYDRAULIC HOSE ASSEMBLY Ø6.35 x 330mm DS	1	F
7	5570770	HYDRAULIC HOSE ASSEMBLY Ø6.35 x 1219mm SB	1	A
8	5701660	10AP/D2-12/15/XPR HEIGHT ADAPTER HOLDER	2	B
9	5746192	ARM ADAPTER, MEDIUM	4	E
10	5215704	ROUND ADJUSTABLE LIFT PAD ASSEMBLY	4	H
11	5505116	D2-8F, XPR-9/10 LIFT HEAD PIN WELDMENT	4	D
12	5715003	POWER UNIT VIBRATION DAMPENER	1	B
13	5701663	D2-8F, XPR-9 FOOT GUARD, L.H.	2	A
14	5701664	D2-8F, XPR-9 FOOT GUARD, R.H.	2	A
15	5736604	TWO POST LIGHT DUTY BOLT ON ARM RESTRAINT GEAR	4	E
16	5746167	DOUBLE THREADED ROD M10 x 1.5 x 275	2	B
17	5530337	AB 3/4" x 6.3"	12	-
18	5210196	D2/XPR POWER SIDE INCLINED SAFETY ASSEMBLY	1	C
19	5210010	D2/XPR OFF SIDE SAFETY WELDMENT	1	F
20	5716173	D2-8/12/15, GP/XPR POWER SIDE PLASTIC SAFETY COVER	1	B
21	5716174	D2-8/12/15, GP/XPR OFF SIDE PLASTIC SAFETY COVER	1	B
22	5900371	XPR-9 INSTALLATION MANUAL	1	-
23	5216006	D2-8/XPR-9 HYDRAULIC LINE ASSEMBLY	1	B

DO NOT SCALE DRAWING

NAME: CA DATE: 08/21/2020

CHECKED: OR 10/05/2022

DIMENSIONS ARE IN MM

THIRD ANGLE PROJECTION

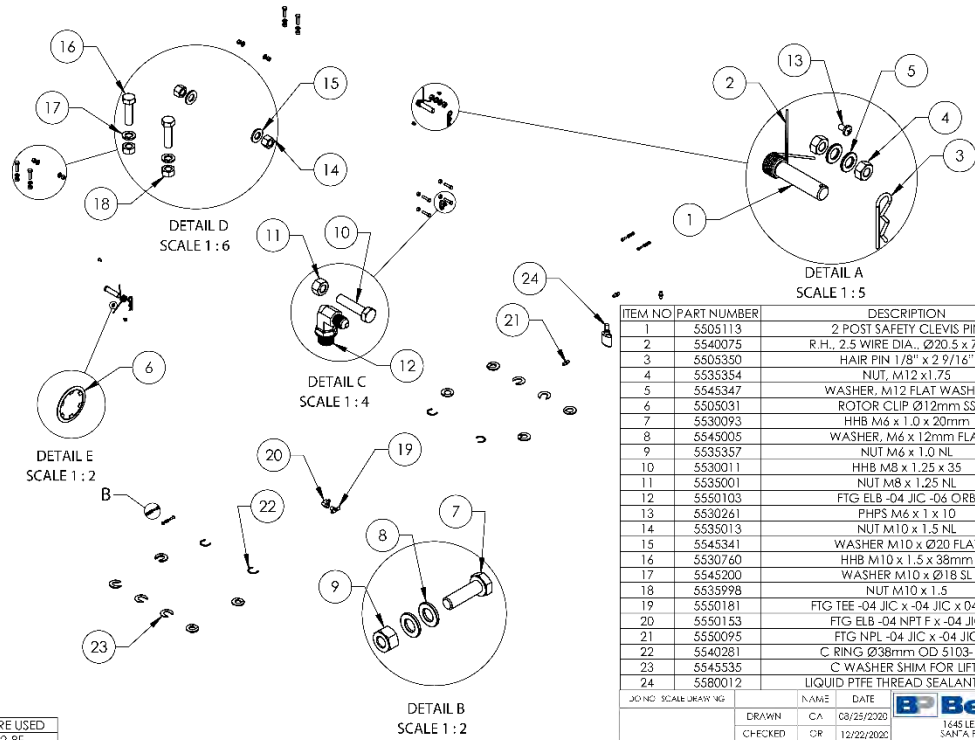
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BendPak
1645 LEWISWOOD DR.
SANTA PAULA, CA 93060

TITLE: XPR-9TF PARTS BOX

SIZE DWG. NO. A 5250329 REV D

SCALE: 1:25 SHEET 1 OF 1



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5505113	2 POST SAFETY CLEVIS PIN	2	H
2	5540075	R.H., 2.5 WIRE DIA., Ø20.5 x 75 LG	2	B
3	5605350	HAIR PIN 1/8" x 2 9/16"	2	-
4	5535354	NUT, M12 x 1.75	2	-
5	5545347	WASHER, M12 FLAT WASHER	2	-
6	5505031	ROTOR CLIP Ø12mm SS	1	-
7	5530093	HHB M6 x 1.0 x 20mm	4	-
8	5545005	WASHER, M6 x 12mm FLAT	8	-
9	5535357	NUT M6 x 1.0 NL	4	-
10	5530011	HHB M8 x 1.25 x 35	4	-
11	5535001	NUT M8 x 1.25 NL	4	-
12	5550103	FTG ELB -04 JIC -06 ORB	1	-
13	5530261	PHPS M6 x 1 x 10	4	-
14	5535013	NUT M10 x 1.5 NL	4	-
15	5545341	WASHER M10 x Ø20 FLAT	4	-
16	5530760	HHB M10 x 1.5 x 38mm	4	-
17	5545300	WASHER M10 x Ø18 SL	4	-
18	5535998	NUT M10 x 1.5	4	-
19	5550181	FTG TEE -04 JIC x -04 JIC x 04 NPT	1	-
20	5550153	FTG ELB -04 NPT F x -04 JIC	1	-
21	5550095	FTG NPL -04 JIC x -04 JIC	3	-
22	5540281	C RING Ø38mm OD 5103-150	4	-
23	5545335	C WASHER SHIM FOR LIFTS	20	-
24	5580012	LIQUID PTFE THREAD SEALANT 50ml	1	-

DO NOT SCALE DRAWING

NAME: CA DATE: 03/23/2020

CHECKED: OR 12/22/2022

DIMENSIONS ARE IN MM

THIRD ANGLE PROJECTION

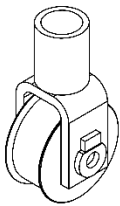
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1645 LEWISWOOD DR.
SANTA PAULA, CA 93060

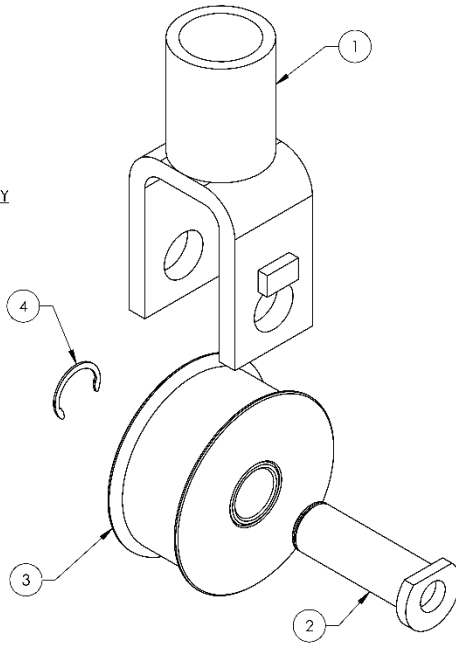
TITLE: D2-8F/XPR-9 PARTS BAG

SIZE DWG. NO. A 5174051 REV A

SCALE: 1:18 SHEET 1 OF 1



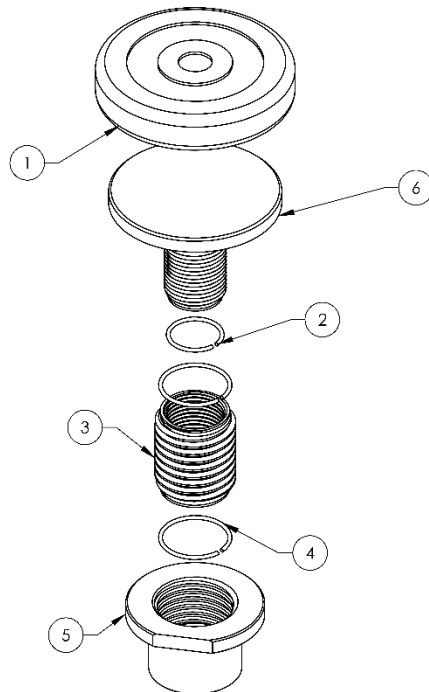
ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE



WHERE USED
D2-8F
XPR-9TF
XPR-9SBT

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600381	D2-8F/XPR-9 PULLEY HOUSING WELDMENT	1	F
2	5600082	D2-8F/PL-7000DLX/XPR-9 CHAIN ROLLER PIN WELDMENT	1	G
3	5215073	D2-8F/PL-7000DLX/XPR-9 CHAIN ROLLER ASSEMBLY	1	H
4	5540006	SNAP RING TRIARC, 5103-100	1	-

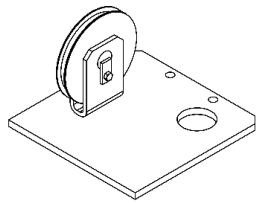
DO NOT SCALE DRAWING		NAME	DATE	BP BendPak
DRAWN	IM	01/25/2006		
CHECKED	CA	03/13/2018		1645 LEMONWOOD DR. SAN JUAN BAUTLA, CA 95060
DIMENSIONS ARE IN MM		THIRD ANGLE PROJECTION		TITLE: D2-8F/XPR-9 CHAIN ROLLER ASSEMBLY
				SIZE DWG. NO.
				A 5210117
				REV
				G
				SCALE: 1:2
				SHEET 1 OF 1



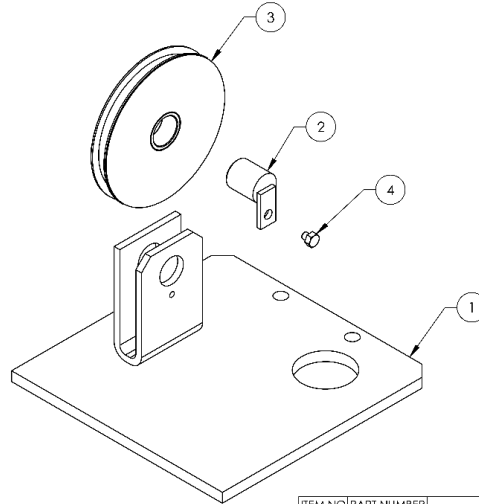
WHERE USED
10AP SERIES
XPR-9 SERIES
XPR-10 SERIES

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5715017	ROUND LIFT PAD ADAPTER POLYURETHANE PAD	1	E
2	5540025	S RING Ø35mm	1	-
3	5746692	INNER SCREW	1	C
4	5540026	S RING Ø45mm	2	-
5	5746693	ROUND LIFT PAD SCREW ADAPTOR	1	D
6	5601001	ROUND LIFT PAD ADAPTOR WELDMENT	1	D

DO NOT SCALE DRAWING		NAME	DATE	BP BendPak
DRAWN	CIY	06/14/2015		
CHECKED	CA	06/29/2018		1645 LEMONWOOD DR. SAN JUAN BAUTLA, CA 95060
DIMENSIONS ARE IN MM		THIRD ANGLE PROJECTION		TITLE: ROUND ADJUSTABLE LIFT PAD ASSEMBLY
				SIZE DWG. NO.
				A 5215704
				REV
				H
				SCALE: 1:3
				SHEET 1 OF 1



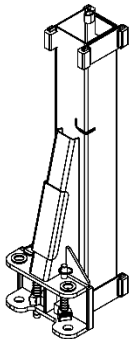
ISOMETRIC VIEW
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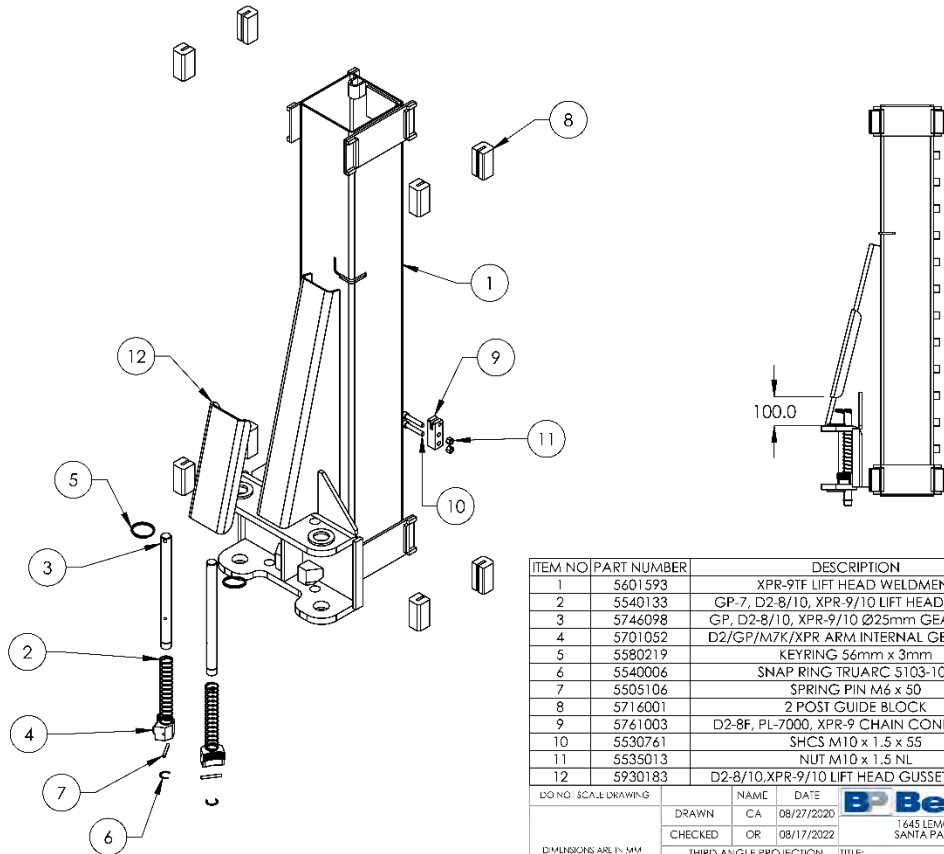
ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601590	XPR-9TF TOP EQUALIZER PULLEY PLATE WELDMENT	1	A
2	5601586	D2-8/XPR-9 CABLE SHEAVE PIN WELDMENT	1	A
3	5575111	XPR-9S/10 SHEAVE ASSEMBLY	1	G
4	5530030	HHB M6 x 1 x 8	1	-

DO NOT SCALE DRAWING		NAME	DATE	BP BendPak 1645 LEMONWOOD DR. SANTA PAULA, CA 95060
DRAWN	CA	08/27/2020		
CHECKED	OR	09/25/2020		
DIMENSIONS ARE IN MM		THIRD ANGLE PROJECTION		TITLE: XPR-9TF TOP EQUALIZER PULLEY PLATE ASSEMBLY
				SIZE DWG. NO. A 5215999 REV A
				SCALE: 1:3 SHEET 1 OF 1

WHERE USED
XPR-9TF



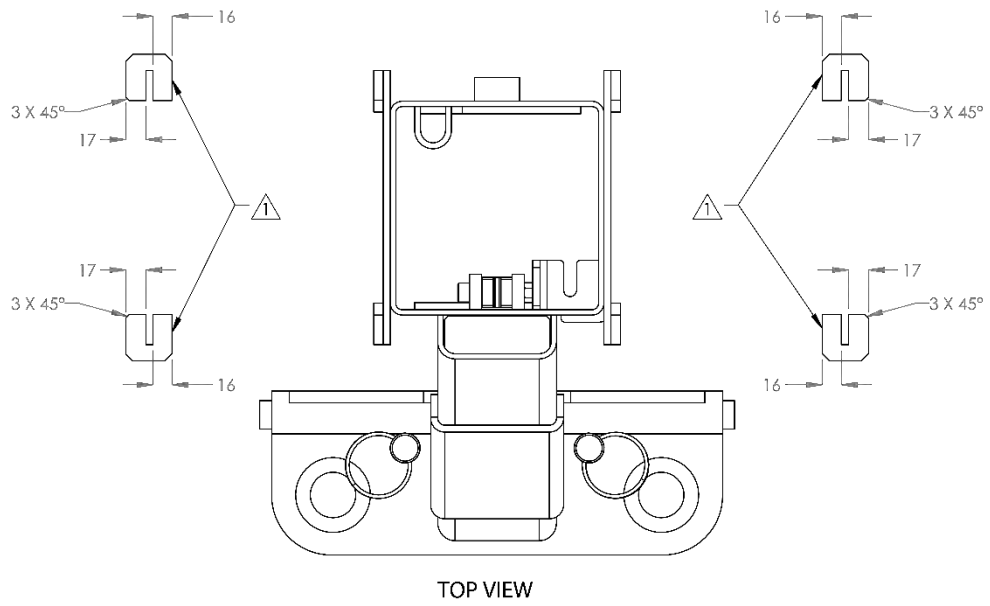
ISOMETRIC VIEW
FOR REFERENCE ONLY
DO NOT SCALE



ITEM NO	PART NUMBER	DESCRIPTION	QTY
1	5601593	XPR-9TF LIFT HEAD WELDMENT	1
2	5540133	GP-7, D2-8/10, XPR-9/10 LIFT HEAD SPRING	2
3	5746098	GP, D2-8/10, XPR-9/10 Ø25mm GEAR SHAFT	2
4	5701052	D2/GP/M7K/XPR ARM INTERNAL GEAR STOP	2
5	5580219	KEYRING 56mm x 3mm	2
6	5540006	SNAP RING TRUARC 5103-100	2
7	5505106	SPRING PIN M6 x 50	2
8	5716001	2 POST GUIDE BLOCK	8
9	5761003	D2-8F, PL-7000, XPR-9 CHAIN CONNECTOR	1
10	5530761	SHCS M10 x 1.5 x 55	2
11	5535013	NUT M10 x 1.5 NL	2
12	5930183	D2-8/10, XPR-9/10 LIFT HEAD GUSSET COVER	1

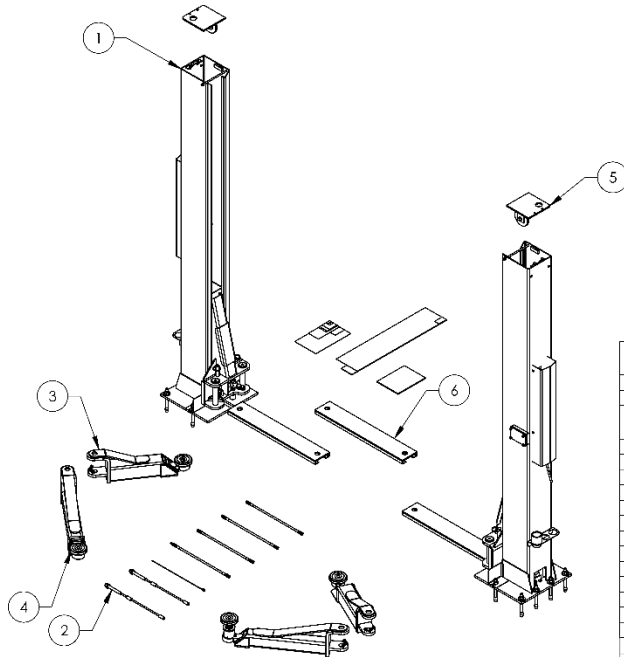
WHERE USED
XPR-9TF

DO NOT SCALE DRAWING		NAME	DATE	BP BendPak 1645 LEMONWOOD DR. SANTA PAULA, CA 95060
DRAWN	CA	08/27/2020		
CHECKED	OR	08/17/2022		
DIMENSIONS ARE IN MM		THIRD ANGLE PROJECTION		TITLE: XPR-9TF LIFT HEAD ASSEMBLY
				SIZE DWG. NO. A 5216001 REV C
				SCALE: 1:12 SHEET 1 OF 1



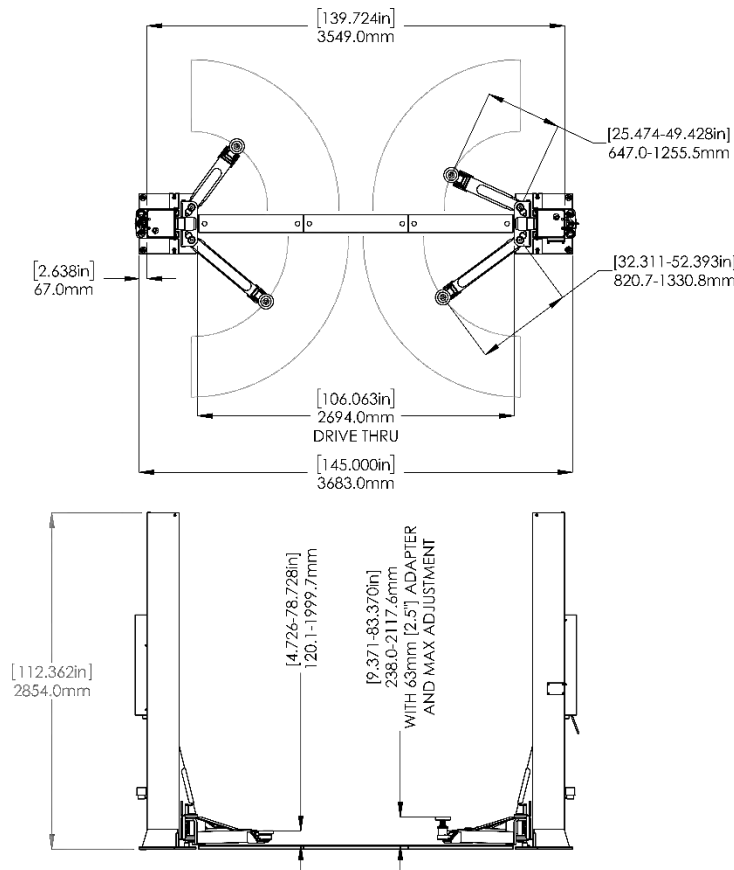
NOTE: UNLESS OTHERWISE SPECIFIED
 ⚠ NOTE ORIENTATION OF PLASTIC GUIDE BLOCK

BP BendPak.		
1645 IRMONGWOOD DR. SAN ANTONIO, TX 78206		
TITLE: XPR-9TF LIFT HEAD ASSEMBLY		
SIZE	DWG. NO.	REV.
A	5216001	C
SCALE: 1:4		SHEET 2 OF 2

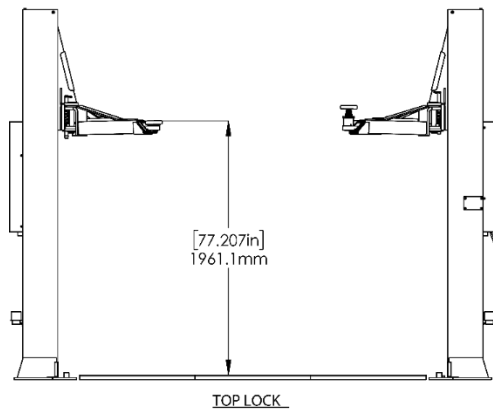
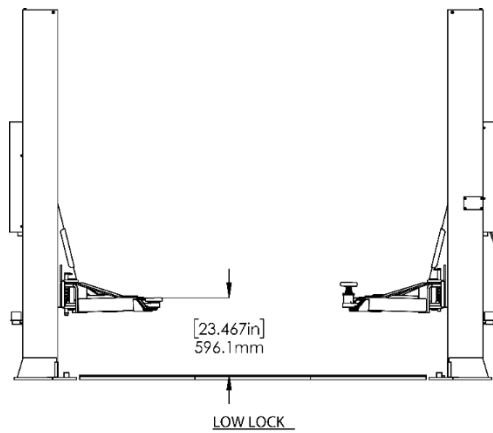


ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	3245094	XPR-9SBT LIFT SUPERSTRUCTURE	1	B
2	5250037	XPR-9S PARTS BOX	1	Q
3	5215287	XPR-9S/10S LOW PROFILE TRIPLE TELESCOPING ARM ASSEMBLY	2	L
4	5215700	XPR-9S/10S LOW PROFILE MEDIUM ARM ASSEMBLY	2	K
5	5215226	XPR-9/9D TOP EQUALIZER PULLEY PLATE ASSEMBLY	2	K
6	5601471	XPR-9SBT FLUSH MOUNT COVER PLATE WELDMENT	3	A
-	5905131	2 POST DECAL KIT, LESS ALL	1	E
-	5905445	MANUFACTURER LABEL	1	-
-	5905402	MAX CAPACITY 9K DANGER LABEL, ENGLISH-FRENCH	1	-
-	5905109	WARNING, ALL/WL 101	1	-
-	5905450	MAX CAPACITY NTRL 9K LABEL, ENGLISH-FRENCH	1	-
-	5905940	PRODUCT DATA LABEL	1	-
-	5905950	SERIAL TAG A	1	-
-	5905285	SERIALTAG EXTERIOR PEEL OFF INVENTORY LABEL	1	-
-	5906044	AMERICAN OWNED LABEL	1	-
-	5905775	CALIFORNIA PROP. 65 LABEL	1	-

DO NOT SCALE DIMENSIONS	NAME	DATE	 1645 - MONWOOD DR. SANTA PAULA, CA 93060
	DRAWN	TM	
	CHECKED	CE	08/12/2022
UNLESS NOTED OTHERWISE	THIRD ANGLE PROJECTION		TITLE: XPR-9SBT PRODUCTION LIFT VER E
	SIZE	DWG. NO.	REV
	A	5260611	F
SCALE: 1:30			SHEET 1 OF 3



 1645 - MONWOOD DR. SANTA PAULA, CA 93060	
TITLE: XPR-9SBT PRODUCTION LIFT VER E	
SIZE	DWG. NO.
A	5260611
REV	F
SCALE: 1:30	
SHEET 2 OF 3	

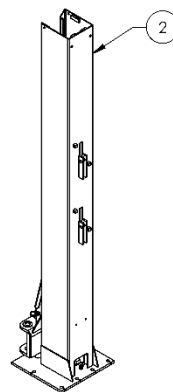
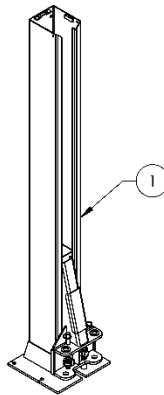


BendPak
1645 LEMONWOOD DR.
SANTA PAULA, CA 93560

TITLE:
XPR-9SBT PRODUCTION
LIFT VER E

SIZE	DWG. NO.	REV
A	5260611	F

SCALE: 1:35 SHEET 3 OF 3



WHERE USED
XPR-9SBT

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5215915	XPR-9SBT POWER SIDE POST ASSEMBLY	1	B
2	5215914	XPR-9SBT OFF SIDE POST ASSEMBLY	1	B

DO NOT SCALE DRAWING	NAME	DATE	BendPak 1645 LEMONWOOD DR. SANTA PAULA, CA 93560
	DRAWN	01/20/2020	
	CHECKED	CM	11/05/2020

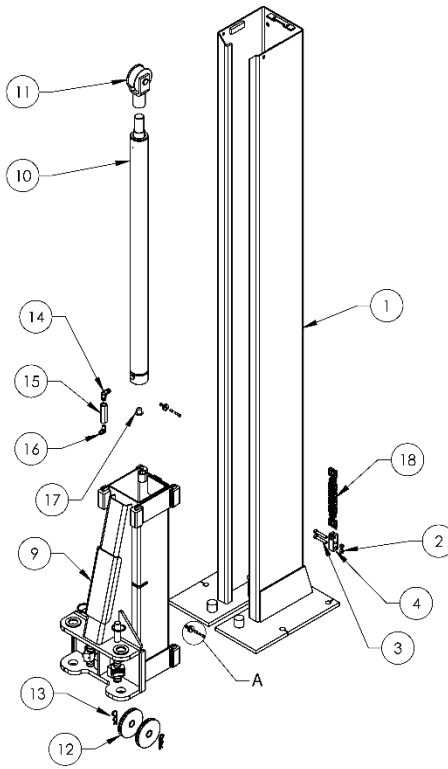
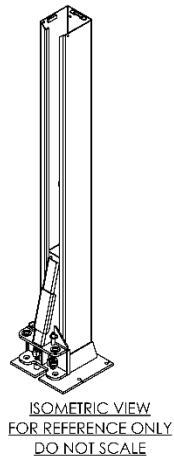
DIMENSIONS ARE IN: MM

THIRD ANGLE PROJECTION

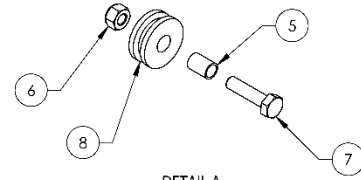
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SIZE	DWG. NO.	REV
A	5245094	B

SCALE: 1:30 SHEET 1 OF 1



WHERE USED
XPR-9SBT



DETAIL A
SCALE 1:2

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601468	XPR-9SBT OFF SIDE POST WELDMENT	1	A
2	5535013	NUT M10 x 1.5 NL	2	-
3	5530761	SHCS M10 x 1.5 x 55	2	-
4	5761003	PL-7000, XPR-9S CHAIN CONNECTOR	1	H
5	5565350	D2/GP/PCL/XPR/PL-7000 SAFETY SHEAVE SPACER	2	C
6	5535357	NUT M6 x 1.0 NL	2	-
7	5530756	HHB M6 x 1 x 25	2	-
8	5575112	D2/GP/PCL/OXPR/PL-7000 SAFETY SHEAVE	2	C
9	5215913	XPR-9SBT LIFT HEAD ASSEMBLY	1	A
10	5502321	CYLINDER ASSEMBLY Ø2.5 x 37 - Ø1.75 ROD	1	G
11	5210117	XPR-9S CHAIN ROLLER ASSEMBLY	1	G
12	5575111	XPR-9S/10 SHEAVE ASSEMBLY	2	G
13	5505350	MODEL #211 HAIR PIN/ LARGE	2	-
14	5550041	FTG ELB -06 NPT x -06 NPT	1	-
15	5550108	XPR-9S 3/8" NPT TUBE FITTING	1	E
16	5550106	FTG ELB -04JIC x 3/8" NPT	1	-
17	5210943	XPR-9S CYLINDER LEVELING PLUG	1	F
18	5210116	XPR-9S CYLINDER CHAIN 2800mm	1	E

DO NOT SCALE DRAWING

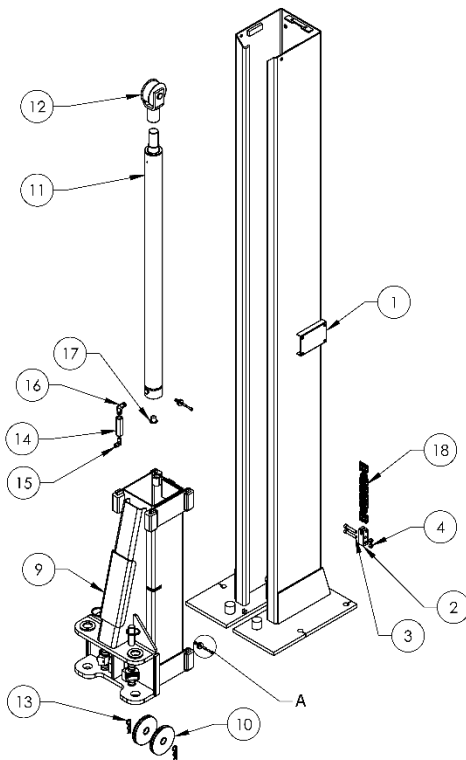
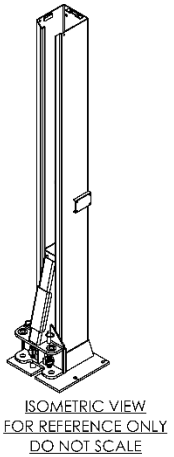
DRAWN: IM DATE: 01/20/2020
 CHECKED: OR DATE: 1/04/2020

THIRD ANGLE PROJECTION

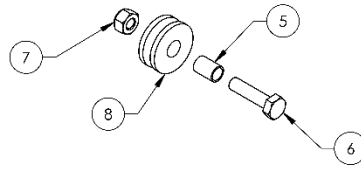
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SCALE: 1:18

SHEET 1 OF 1



WHERE USED
XPR-9SBT



DETAIL A
SCALE 1:2

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601469	XPR-9SBT POWER SIDE POST WELDMENT	1	A
2	5761003	PL-7000, XPR-9S CHAIN CONNECTOR	1	H
3	5530761	SHCS M10 x 1.5 x 55	2	-
4	5535013	NUT M10 x 1.5 NL	2	-
5	5565350	D2/GP/PCL/XPR/PL-7000 SAFETY SHEAVE SPACER	2	C
6	5530756	HHB M6 x 1 x 25	2	-
7	5535357	NUT M6 x 1.0 NL	2	-
8	5575112	D2/GP/PCL/OXPR/PL-7000 SAFETY SHEAVE	2	C
9	5215913	XPR-9SBT LIFT HEAD ASSEMBLY	1	A
10	5575111	XPR-9S/10 SHEAVE ASSEMBLY	2	G
11	5502321	CYLINDER ASSEMBLY Ø2.5 x 37 - Ø1.75 ROD	1	G
12	5210117	XPR-9S CHAIN ROLLER ASSEMBLY	1	G
13	5505350	MODEL #211 HAIR PIN/ LARGE	2	-
14	5550108	XPR-9S 3/8" NPT TUBE FITTING	1	E
15	5550106	FTG ELB -04JIC x 3/8" NPT	1	-
16	5550041	FTG ELB -06 NPT x -06 NPT	1	-
17	5210943	XPR-9S CYLINDER LEVELING PLUG	1	F
18	5210116	XPR-9S CYLINDER CHAIN 2800mm	1	E

DO NOT SCALE DRAWING

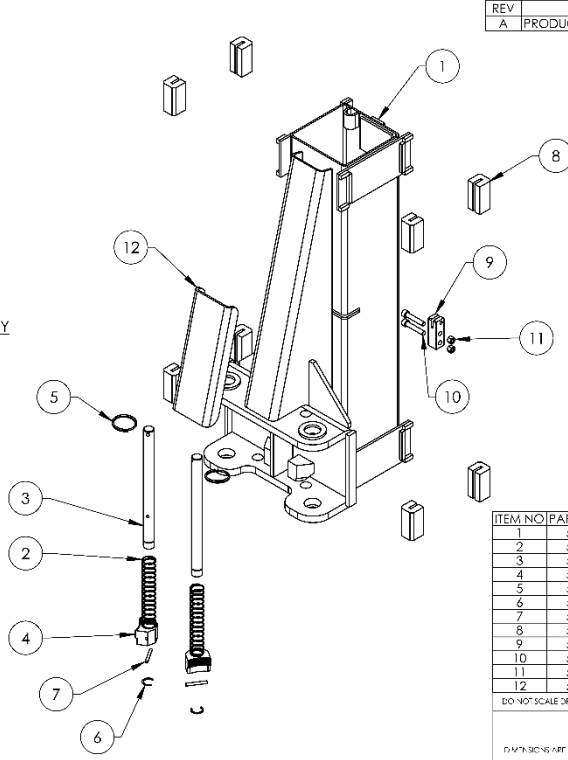
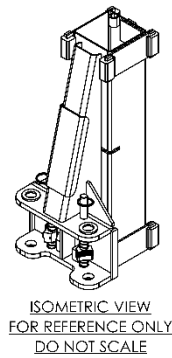
DRAWN: TM DATE: 01/21/2020
 CHECKED: OR DATE: 1/04/2020

THIRD ANGLE PROJECTION

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SCALE: 1:18

SHEET 1 OF 1



WHERE USED
XPR-9SBL

REVISION				
REV	DESCRIPTION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE, DERIVED FROM 5215386	01/21/2020	TM	01144

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601470	XPR-9SBL LIFT HEAD WELDMENT	1	A
2	5540133	GP-7, XPR-9/10 LIFT HEAD SPRING	2	D
3	5744098	GP/XPR-9/10 Ø25mm GEAR SHAFT	2	F
4	5701052	GP/XPR ARM INTERNAL GEAR STOP	2	F
5	5580219	KEYRING 56mm x 3mm	2	-
6	5540006	SNAP RINGS TRUARC 5103-100	2	-
7	5505106	SPRING PIN M6 x 50	2	-
8	5716001	2 POST GUIDE BLOCK	8	G
9	5761003	PL-7000, XPR-9S CHAIN CONNECTOR	1	H
10	5530761	SHCS M10 x 1.5 x 55	2	-
11	5539013	NUT M10 x 1.5 NL	2	-
12	5930183	XPR-9/10 LIFT HEAD GUSSET COVER	1	E

DO NOT SCALE DRAWING

DRAWN NAME DATE
TM 01/20/2020

CHECKED OR 04/16/2020

THIRD ANGLE PROJECTION



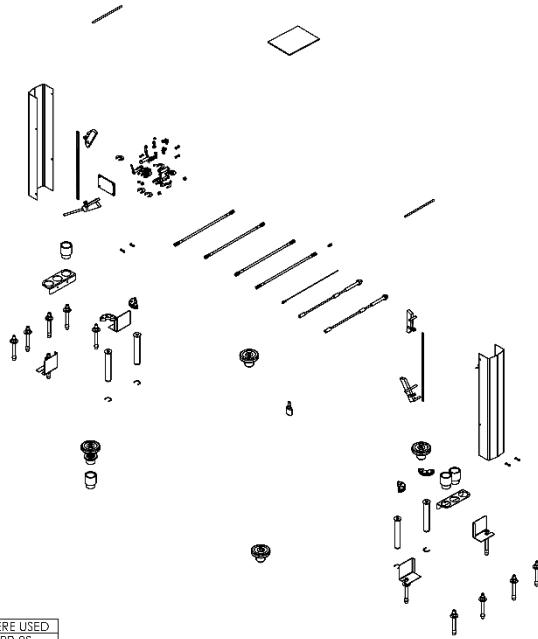
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TITLE: XPR-9SBL LIFT HEAD ASSEMBLY

SIZE DWG. NO. REV
A 5215913 A

SCALE: 1:10 SHEET 1 OF 1



WHERE USED
XPR-9S
XPR-9TS
XPR-9S-LP
XPR-9SBL

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5174215	XPR-9 PARTS BAG	1	L
2	5215704	ROUND ADJUSTABLE LIFT PAD ASSEMBLY	4	H
3	5701214	XPR-9 SAFETY CLOSEOUT COVER	2	G
4	5570104	XPR-9 HYDRAULIC HOSE ASSY Ø6.35 x 2985mm DS	1	E
5	5570103	D2-8F, XPR-9 HYDRAULIC HOSE ASSY Ø6.35 x 1359mm DS	2	E
6	5570176	HYDRAULIC HOSE ASSEMBLY Ø6.35 x 330mm DS	1	F
7	5550095	FTG NPL -04 JIC x -04 JIC	1	-
8	5559359	CABLE ASSEMBLY Ø10 x 9507mm DBST	2	D
9	5595161	XPR-9 Ø2.4mm x 4400 SAFETY CABLE	1	E
10	5505116	D2-8F, XPR-9/10 LIFT HEAD PIN WELDMENT	4	D
11	5540281	C RING Ø38mm OD 5103-150	4	-
12	5715003	POWER UNIT VIBRATION DAMPENER	1	B
13	5731121	XPR-9 SAFETY LINKAGE BAR	2	G
14	5600370	XPR-9 SAFETY WELDMENT #1	1	K
15	5600372	XPR-9 SAFETY WELDMENT #3	2	G
16	5600371	XPR-9 SAFETY WELDMENT #2	1	H
17	5736604	TWO POST LIGHT DUTY BOLT ON ARM RESTRAINT GEAR	4	E
18	5746167	DOUBLE THREADED ROD M10 x 1.5 x 275	2	B
19	5530337	AB 3/4" x 6.3"	12	-
20	5900371	XPR-9S INSTALLATION MANUAL	1	-
21	5746192	ARM ADAPTER, MEDIUM	4	E
22	5701663	D2-8F, XPR-9 FOOT GUARD, L.H.	2	A
23	5701664	D2-8F, XPR-9 FOOT GUARD, R.H.	2	A
24	5701660	10AP/D2-12/15/XPR HEIGHT ADAPTER HOLDER	2	B

DO NOT SCALE DRAWING

DRAWN NAME DATE
JM 12/15/2015

CHECKED OR 06/30/2021

THIRD ANGLE PROJECTION



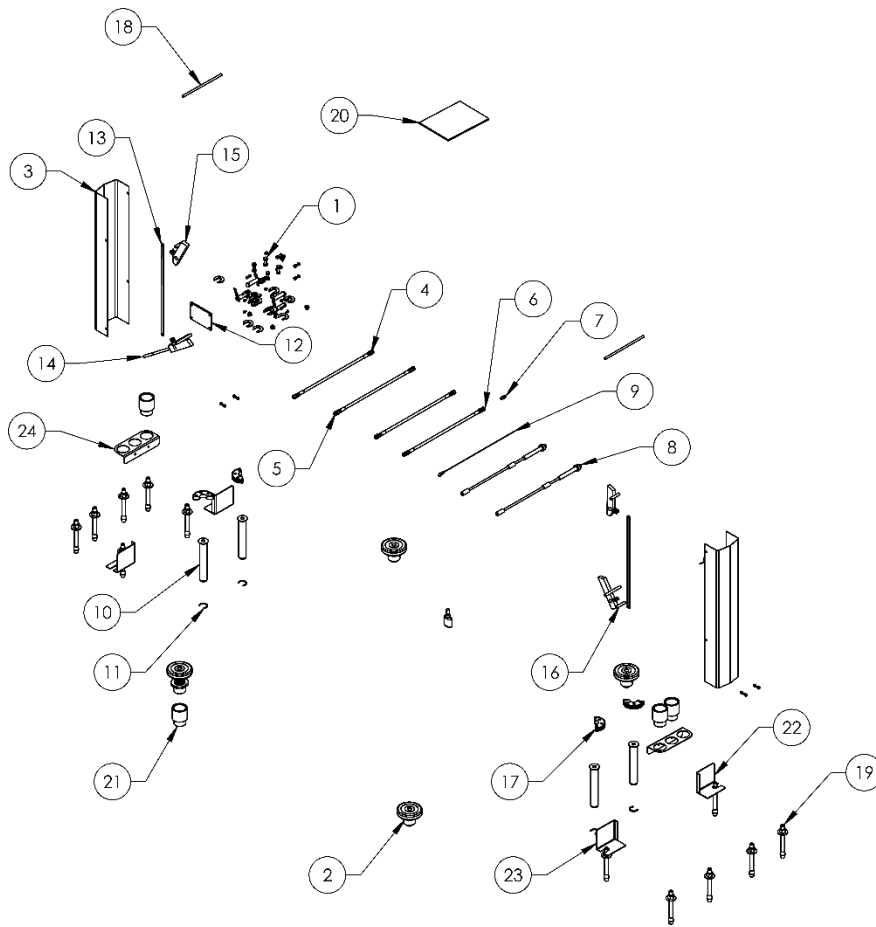
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TITLE: XPR-9S PARTS BOX

SIZE DWG. NO. REV
A 5250037 Q

SCALE: 1:30 SHEET 1 OF 2



1645 LEMONWOOD DR. SANTA PAULA, CA 93026		
TITLE: XPR-9S PARTS BOX		
SIZE	DWG. NO.	REV
A	5250037	Q
SCALE: 1:25		SHEET 2 OF 2

Automotive Lift Institute (ALI) Store

You probably checked the [ALI's Directory of Certified Lifts](http://www.autolift.org/ali-directory-of-certified-lifts/) (www.autolift.org/ali-directory-of-certified-lifts/) before making your most recent Lift purchase, but did you know the [ALI Store](http://www.autolift.org/ali-store/) (www.autolift.org/ali-store/) offers a wide variety of professional, easy-to-use, and reasonably priced training and safety materials that will make your garage a safer place to work?

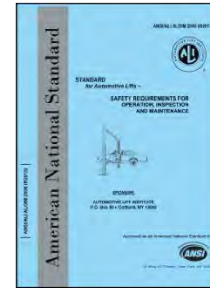
The ALI Store is your trusted source for workplace safety!



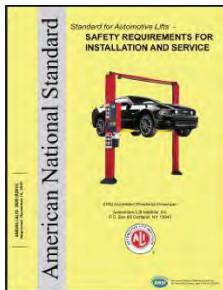
Lifting It Right Online Certificate Course. Make *sure* you and your people are lifting vehicles the right way.



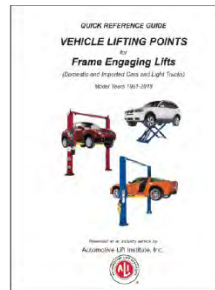
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ANSI/ALI ALOIM Standard for Automotive Lifts. Safety Requirements for Operation, Inspection, and Maintenance.



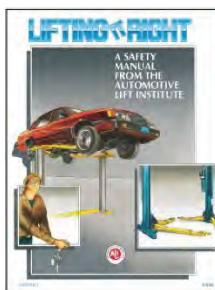
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Guide to Hitting Vehicle Lifting Points for Frame-Engaging Lifts. Don't eyeball your lifting points, *know* where they are.



Lift Operator Safety Materials. Five safety documents in a single package.



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Uniform Warning Labels and Placards for 2-Posts. Labels in Mandarin, French Canadian, and Spanish are also available.



Safety Tips Card. Reminds your people of 13 key safety tips to follow daily.

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