

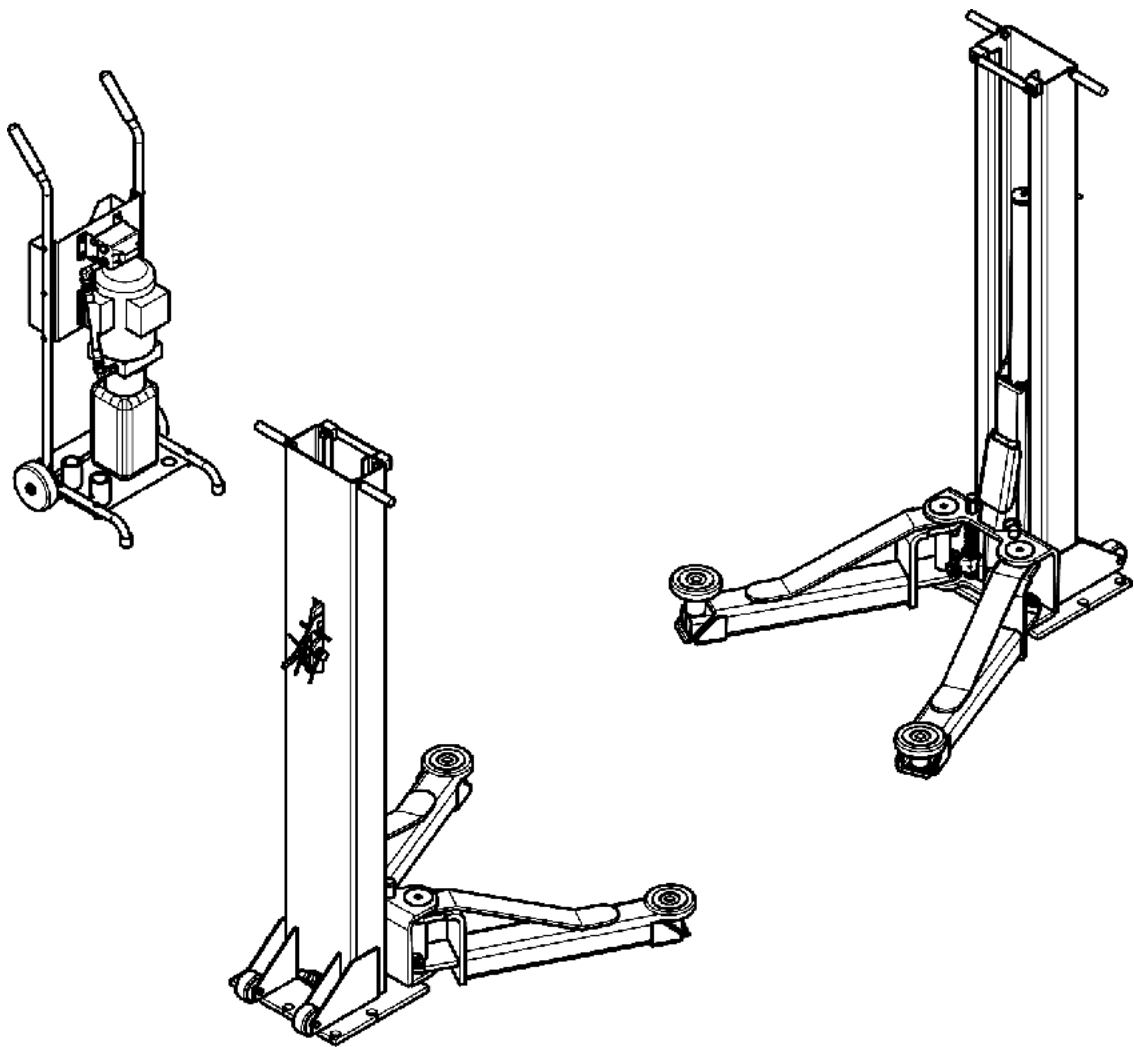


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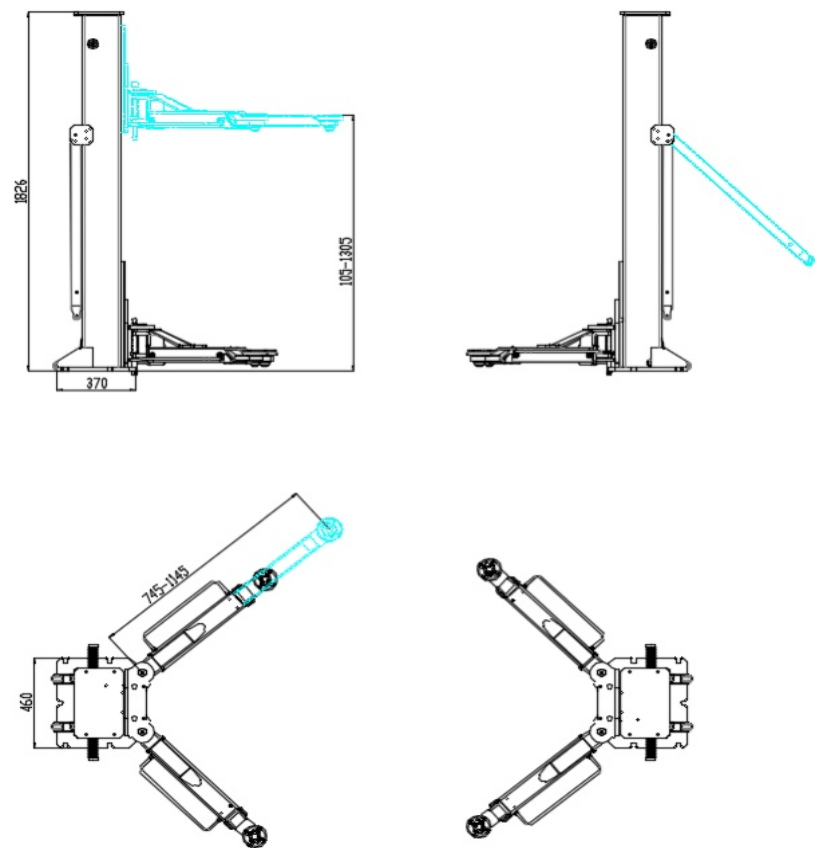
PORTABLE TWO POST LIFT PMRL-2000



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. By proceeding with setup and operation, you agree that you fully understand the contents of this manual and assume full responsibility for product use.



Specifications



Lifting capacity	6,600lbs. / 2 , 9 9 3 k g
Maximum capacity front axle	3,500 lbs. / 1,587 kg
Maximum capacity rear axle	3,500 lbs. / 1,587 kg
Max Load per Arm	1,750 lbs. / 794 kg
Column Height	7 1 . 8 " / 1826mm
Typical Width (edge of Base Plates)	18.11"/460mm
Arm Reach (min)	29.3" /745mm
Arm Reach (max)	45"/1145mm
Minimum Pad Height	5.25" / 137 mm
Maximum Lifting Height (with Adapter)	51.3" / 1,305mm

Hydraulic System Warnings

Neglecting to adhere to these precautions may lead to significant personal injury, and in exceptional circumstances, may even result in fatality.

Please refrain from operating your Power Unit without hydraulic fluid, as this may result in damage to the unit.

Before attempting to lift a vehicle, it is essential to inspect all hydraulic hose fittings.

Avoid connecting or disconnecting hydraulic hoses when the equipment is loaded or when the hydraulic system is pressurized.

Maintain cleanliness in the Hydraulic System and ensure that the Quick-Connect Fittings are clear of any dirt or obstructions.

Avoid direct contact with hydraulic fluid; always use gloves when working with hydraulic cylinders or hoses.

Before powering up the hydraulic system, carefully check that all hydraulic connections are secure, including fittings, hoses, and auxiliary port plugs. Examine the hydraulic hoses for any pinches or damage and replace them before use.

When working with hydraulic fluid, make sure to follow the safety guidelines provided by the manufacturer.

This Hydraulic Power Unit is not designed for continuous operation, as the motor is not rated for such use.

Additional Operating Information

Keep the following in mind when operating your :

- Use it only on a hard, flat surface. PMRL-2000 is portable; if you move it to a new location, make sure the location has a hard, flat surface.
- Always verify that you have the proper overhead clearance.
- **Visually inspect the Lift before each use.** Do not use it if you find any damage or severe wear to the Lift components.
- Both Posts **must** be anchored in place when the Lift is in operation.

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- Make sure the Anchor Bolts are securely tightened before each use; if any Anchor Bolts are loose, do not use the Lift until all Anchor Bolts are adjusted.
 - Do not block, open, or override self-closing Lift Controls; they are designed to return to the “Off” or Neutral position when released.
 - Always remain clear of the Lift when raising or lowering Vehicles.
 - Do not attempt to lift a Vehicle in any way with less than all four Lift Arms.
 - Do not remove or disable the Lift Arm Restraints.
 - Do not rock the Vehicle or remove heavy components while on the Lift; removal of Vehicle components may alter the weight distribution.
 - Do **not** begin working on the Vehicle until you have confirmed that both Lift Heads are securely engaged on a Safety Lock position.
 - Never move under a raised Vehicle without first confirming that both Safety Locks are secured on a locking position of the same height.
 - Always remove tools, trays, and all other equipment before lowering the Lift.
 - Never drive over the Lift Arms; make sure to rotate the Lift Arms to provide an unobstructed exit before moving the Vehicle from the Lift area.

About Lifting Points, Lift Pad Adapters and Lift Pad Extensions

An important note to keep in mind when using the PMRL-2000 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.

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 the PMRL-2000 Lift, you need to have the Lift Pad Adapters contact the Vehicle

on the manufacturer’s recommended Lifting Points. By definition, when you raise a Vehicle by its Lifting Points, the Vehicle is balanced.

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.

The best approach is to find the Vehicle’s recommended lifting points in the *Vehicle Lifting Points for Frame Engaging Lifts* guide, which is provided with your Lift, or contact the manufacturer of the Vehicle. This guide also includes 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.

Raising a Vehicle

This section describes how to raise a vehicle on the PMRL-2000 Lift.

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:

1. Check the items listed
2. Verify the Lift is fully lowered to the ground and the Lift Arms are rotated out of the Vehicle's path in the full drive-through position.
3. Carefully drive the Vehicle in between the Lift Posts and then stop.

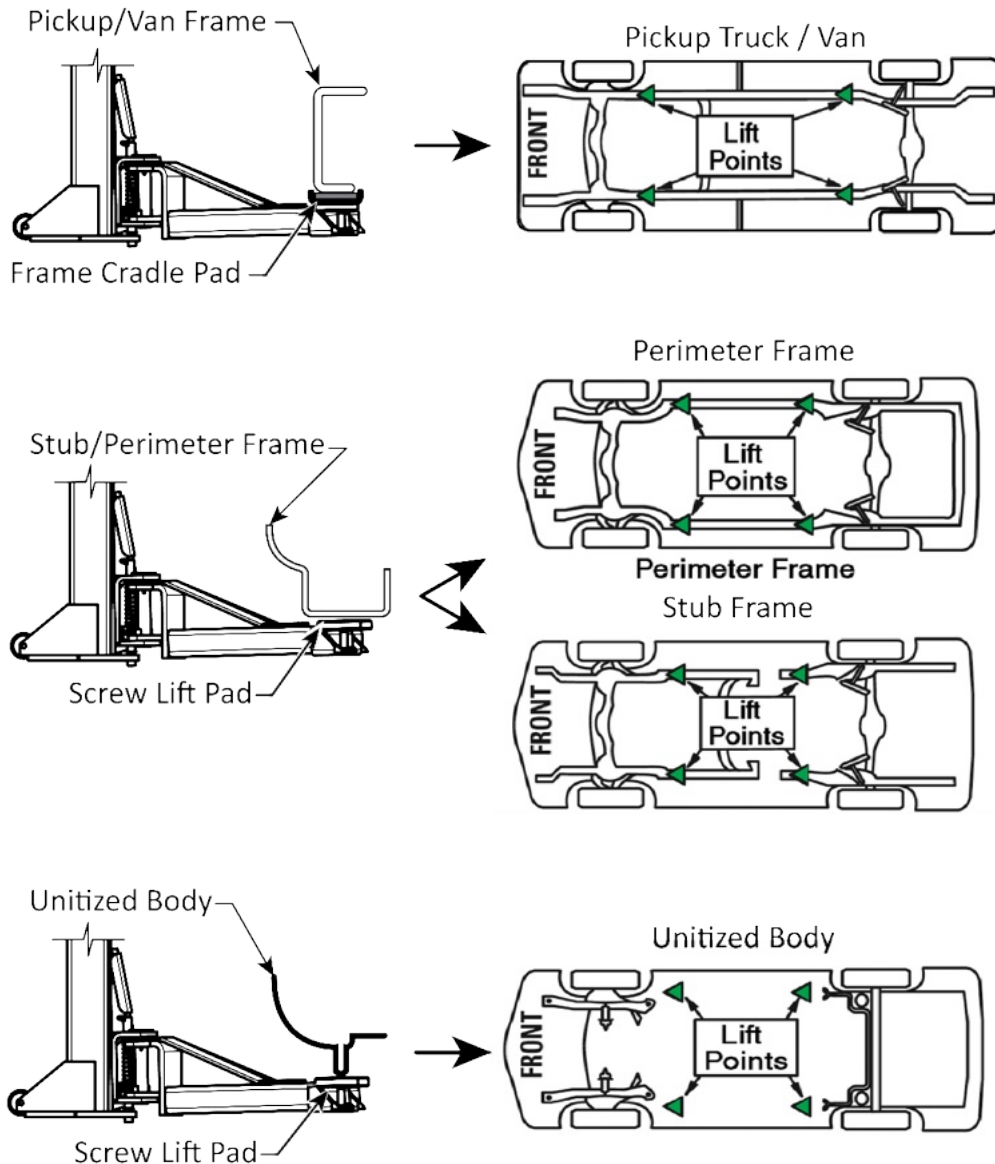
When driving a Vehicle into position, keep to the middle of the area between the Posts. If you hit a Lift Arm or any other portion of the Lift, you could damage the Vehicle and/or the Lift.

4. Put the Vehicle in park, put on the parking brake, and turn off the Vehicle.
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 damaging them on the Lift's Post.
6. Position the Lift Arms until the Lift Pads are under the Vehicle and **directly under** the manufacturer's recommended Lifting Points for the Vehicle you are raising.

Do not guess 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.

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

The figure below illustrates typical lifting points based on Vehicle Frame type.



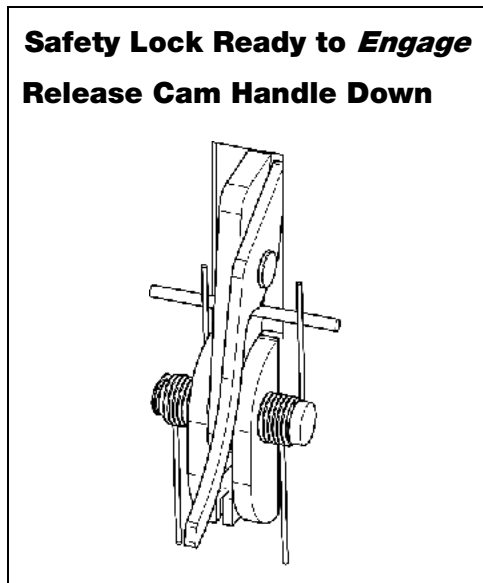
⚠ WARNING Before attempting to lift a Vehicle verify:

- 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.

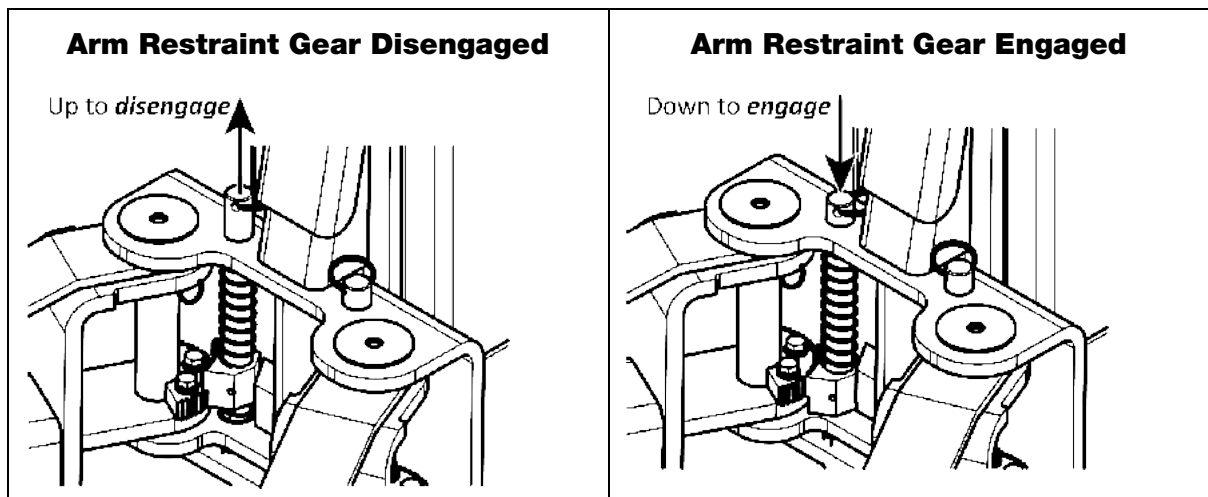
**WARNING**

Always use Safety Stands when removing or installing heavy components that may affect the Vehicle's center of gravity.

7. Verify the **both** Safety Lock Release Cam handles are **down** in the **engage** position. Refer to the figure below.



8. Press and hold the **Up** Button on the Power Unit to raise the Lift until **just before** the Adapters make contact with the Lifting Points, then release the **Up** Button.
9. Check the Arm Restraint Gears **on all four Lift Arms** to make sure they are engaged and that the Lift Pads will make solid contact with the Lifting Points when raised further.
 - a. To **disengage** the Arm Restraint Gear and unlock the Lift Arm, use the Ring to lift up on the Shaft. Refer to the figure on the next page.
 - b. To **engage** the Arm Restraint Gear and lock the Lift Arm, push down on the Shaft while rocking the Lift Arm slightly. Refer to the figure on the next page.



10. Press the **Up** Button until the Tires of the Vehicle are a few inches off the ground.

If the Lift becomes unstable or the Vehicle starts moving, release the **Up** Button immediately.

11. Verify all four of the Lift Pads are making solid contact with the Lifting Points.

If any of the Lift Pads are **not** making solid contact with the Lifting Points, lower the Lift and adjust the Lift Arms and Pads until they make better contact.

12. When the Vehicle is just a few inches off the ground, rock the Vehicle to make sure it 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.

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.

Always keep a line of sight on the Lift at all times. Ensure personnel and objects are clear of the Lift at all times.

Remain Clear of the elevated Lift until visual confirmation is made that all Safety Locks are fully engaged and the Lift is lowered onto the Safety Locks.

13. Raise the Lift until the Vehicle reaches the desired height, go up a bit further, then release the **Up** Button.

14. Press and hold the Lowering Handle briefly to move the Lift back down, which engages it on the closest Safety Lock.

15. 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.

If you miss the desired Safety Lock, press and hold the **Up** Button again and move just past the desired Safety Lock. You'll hear a click indicating the Safety Lock has passed a Safety Block. Release the **Up** Button, then hold the Lowering Handle again to lower the Lift onto the desired Safety Lock.

Do **not** move under the Vehicle until you have confirmed that the Lift is engaged on Safety Locks.

Always ensure both Safety Locks are engaged. If the Lift Heads are engaged on Safety Locks at two different heights or only one Safety Lock is engaged, the Vehicle could become unbalanced and fall causing damage, injury or death.

16. Recheck the Lift Arms and Pads to verify they are still making solid contact with the Vehicle Lifting points.

17. Verify the Lift is engaged on the same Safety Lock on both posts (all four arms are at the same height).

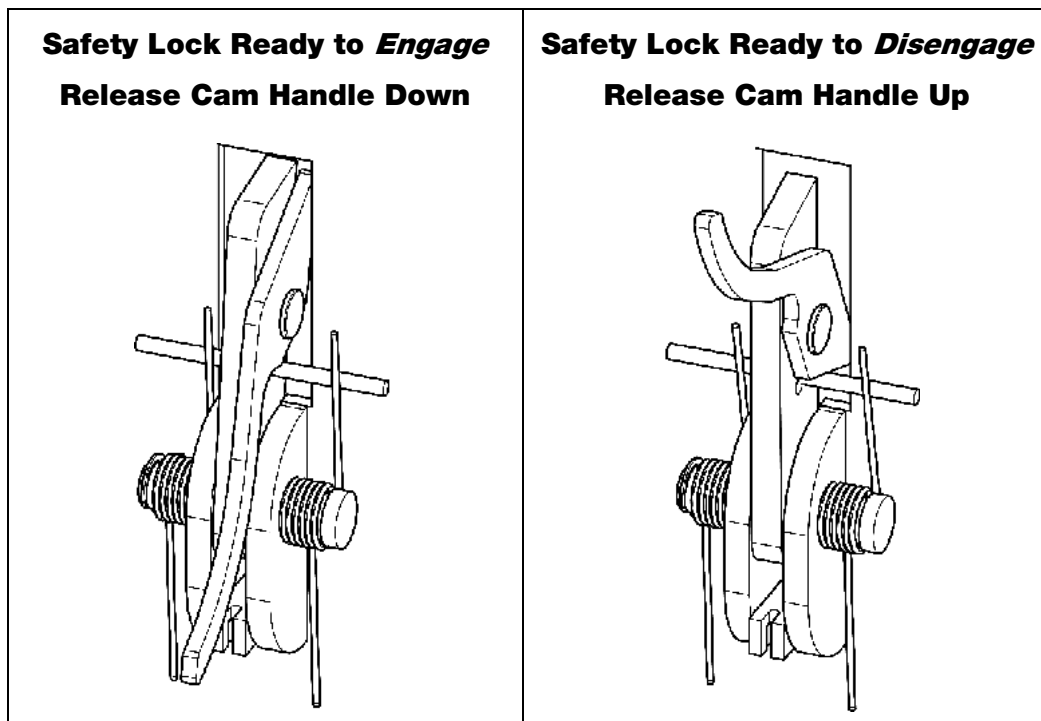
18. Begin work on the Vehicle.

Lowering a Vehicle

NOTICE

If the PMRL-2000 *CE Safety Release Kit* is installed on this Lift, refer to **Lowering a Vehicle using the CE Safety Release Kit** Section, below.

1. Check under and around the Vehicle to verify the area is clear of all personnel, tools and obstructions.
2. Press and hold the **Up** Button on the Power Unit for a few seconds. This moves the Lift Heads off of the Safety Locks.
3. On each Post, move the Safety Lock Release Cam handle **Up** to the **disengage** position. Refer to the figure below.



4. **Press** and **hold** the Lowering Handle on the Power Unit.

Stay clear of the Lift as it lowers; obey the pinch points warning decals.

5. When the Lift is fully lowered to the ground, release the Lowering Handle on the Power Unit.
6. Return both Safety Lock Release Cam Handles to the **down** or ready to engage position.
7. When the Lift Arms have lowered enough to clear the bottom of the Vehicle, rotate the Lift Arms out from under the Vehicle and toward the PMRL-2000 Posts into the full drive-through positions.

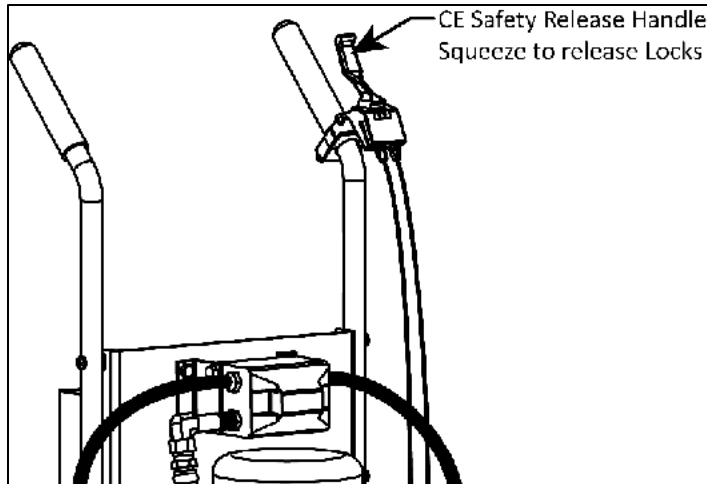
This clears a path for the Vehicle to move out of the Lift area.

8. Carefully drive the Vehicle out of the Lift.

Lowering a Vehicle using the **CE Safety Release Kit**

The following procedure is intended for PMRL-2000 Lifts equipped with the *CE Safety Release Kit* only.

1. Check under and around the Vehicle to verify the area is clear of all personnel and obstructions.
2. ~~Move the lift arms~~ Move the lift heads off the Safety Locks by pressing and holding the **Up** Button on the Power Unit
3. Squeeze and hold the CE Safety Release Handle. If the Safety Release Handle will not move, the Lift Heads are not yet clear of the Safety Locks. Press and hold the **Up** button on the Power Unit for a few more seconds, then attempt to squeeze and hold the Safety Lock Release again.



Press and *hold* the Lowering Handle on the Power Unit while squeezing and holding the Safety Lock Release.

Stay clear of the Lift as it lowers; obey the pinch points warning decals.

4. When the Lift Arms have lowered to the ground, release the CE Safety Release Handle and the Lowering Handle on the Power Unit.
5. The Lift Arms should have lowered enough to clear the bottom of the Vehicle, rotate the Lift Arms out from under the Vehicle and towards the PMRL-2000 Frame.

This clears a path for the Vehicle to move out of the Lift area.

6. Carefully drive the Vehicle out of the Lift.

Moving the Lift

The PMRL-2000 is portable, which means you can move it around your work space, if you have installed additional anchors.

To move the Lift:

1. Make sure the Lift is fully lowered and the Lift Arms have been removed.

Do not connect or disconnect the Hoses with the Lift in an elevated position.

2. Press and hold the Lowering Handle for a few seconds to relieve any hydraulic pressure in the Hydraulic Hoses.
3. Unplug the Power Cord and wrap it around the Portable Stand.

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4. Put a clean rag under the hydraulic connections near the bottom of the Hydraulic Cylinder, then disconnect the Hydraulic Hose.

Make sure to clean any Hydraulic Fluid from the Hydraulic Hoses.

5. Loosen then remove the five Anchor Bolts from the Base Plate; Remove any shims and keep both the Bolts and shims handy for future use.

Be careful not to disturb the Post until you are ready to move it to your storage area.

We recommend that you mark or otherwise note the Shim locations used at each Anchor to help at the time of re-installation.

6. Insert an Anchor Plug (5530412) in each Anchor Sleeve in the ground, to prevent the Anchor Sleeves from filling with debris while the Posts are in storage.
7. Using a downward force, push and tilt the Post onto its Wheels, and then carefully move the Post to the desired location.
8. Repeat Steps 4 through 7 for the other Post.

Maintenance

Before performing maintenance on your Lift, verify it is 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.

A complete pre-operation inspection is required before using this equipment.

Read your manual and understand how this equipment works before using, maintaining or repairing. Routine maintenance and adjustments are the responsibility of the owner/user and are not covered under warranty.

Routine maintenance and adjustments should be carried out on a regular basis. *Unless stated otherwise, all maintenance may be performed by the owner/employer and does not require trained lift service personnel.* Replace worn, damaged or broken parts with original BendPak or BendPak approved parts or with parts that meet or exceed the original specifications.

Routine maintenance and adjustments are the **responsibility of the owner/user** and are **not** covered under warranty.

To maintain your Lift:

- **Daily:** Keep the Lift clean. Wipe up any oil spills, clean any dirt.
- **Daily:** Make a visual inspection of all moving parts and check for damage or excessive wear. If you find any damaged or worn parts, take the Lift out of service until they are replaced.
- **Daily:** Make sure the Safety Locks are in good operating condition. If you find that the Safety Locks are damaged or excessively worn, take the Lift out of service until they are replaced. ***Do not use your Lift if the Safety Locks are damaged or excessively worn.***
- **Daily:** If the CE Safety Release Kit is installed, verify the Safety Locks engage and disengage freely. If you find that the Safety Release mechanism is damaged or excessively worn, take the Lift out of service until is repaired or replaced.
- **Daily:** Verify the Cylinder Clamp is secured and in place at the top of the Lift Head.
- **Weekly:** Check all controls to make sure they are functioning normally.
- **Weekly:** Check all labels on the unit. Replace them if they are illegible or missing.
- **Monthly:** Lubricate the inside of the Posts where the Lift Head's Slide Blocks move. We recommend using white lithium grease or similar.
- **Monthly:** Make sure all pivot arm pins are properly secured.
- **Monthly:** Check the Power Unit's Hydraulic Fluid levels. Refill if low.