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 in accordance with all applicable local electrical codes.

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) must 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, 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 following sections describing these tasks.

Electrical Information

All wiring **must** be performed by a licensed, certified Electrician in accordance with all applicable local electrical codes. 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 circuit breaker:
 - For a 208 to 230 VAC, *single phase* circuit, protected by an appropriate fuse or circuit breaker for the power unit delivered with the Lift.

Wiring the Microswitch

This section describes how to wire the Microswitch; *installing* the Microswitch was described in **Installing the Microswitch**.

The Lift comes with either one or two Microswitches, depending on the Power Unit:

- **1 Ph Power Units**. You need only one Microswitch, which must be wired between incoming power and the Electrical Box on the Power Unit on one of the two "hot" wires.
- 3 Ph Power Units. You need two Microswitches, which must be wired between incoming
 power and the Electrical Box on the Power Unit on two of the three hot wires. Both Microswitches
 you receive are identical. If wiring *two* Microswitches, they *must* be wired on two different hot
 wires.

Refer to the diagrams in **Wiring Diagrams** for detailed Microswitch wiring information.

The following procedure assumes the Microswitch is already in place. If it is not, refer to **Installing the Microswitch** to install it.

To wire a Microswitch to the Lift:

- 1. Locate the Microswitch Cable (14/4 SJO, UL 62, 300 VAC) supplied with the Lift.
- 2. **On the Overhead Assembly**, connect one end of the Microswitch Cable to the Microswitch (or two Microswitches, for a 3 Ph Power Unit). Refer to **Wiring Diagrams** for wiring information.
- 3. Route the Microswitch Cable from the Microswitch on the Overhead Assembly over to the Powerside Post, down the Powerside Post, out the hole in the Post near the top of the Safety Lock Release, and to the Electrical Box on the Power Unit.
- **NOTICE** The Microswitch Cable and the Short Hydraulic Hose must go **around** the Powerside Safety Cover.



4. Once the Microswitch Cable is routed from the Microswitch to the Power Unit, clip the Microswitch Cable using the clips on the Overhead Assembly and the inside of the Powerside Post.

Clipping the Microswitch Cable in place keeps it out of the way of the other components.

5. **On the Power Unit**, open the Electrical Box and wire the Microswitch Cable per the instructions in **Connecting the Power Unit**.

Connecting the Power Unit

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

- All wiring **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. The Lift uses electrical energy; if your organization has Lockout/Tagout policies, make sure to implement them after connecting to a power source.
- **DANGER** Make clear to the 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.

Your 10AP 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.

NOTICE 110 VAC Power Units are currently **not** available for 10AP Series Lifts.

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

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.



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 may 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.

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 and protected by an appropriate circuit breaker.
 - Wire a power cord (with appropriate plug) *inside the Electrical Box* to the wiring that was connected to the Pigtail.
- 3. Wire the Microswitch(es) into the incoming power. Refer to **Wiring Diagrams** for wiring information.

4. Fill the Hydraulic Fluid reservoir with approved Hydraulic Fluid. When you receive the Power Unit, the Reservoir is empty; you need to fill it.

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

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.

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

▲ 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

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 allow the operator to interrupt the main electrical power in the event of an emergency or circuit fault, or when the 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 details 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 the 10AP Series Lifts, 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.

Installing a Thermal Disconnect Switch **must** be performed by a licensed, Electrician in accordance with local and national electrical codes.

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



Installing a Thermal Disconnect Switch

WARNING A BendPak 10AP Series 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, Electrician in accordance with national and local and 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 reenergized until all procedures are complete.

Running high electrical current that exceeds 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.

Lubricating the Lift

Lubricate the following with a white lithium grease or similar:

- All Cable Sheaves and Cable Sheave Pins on both Posts.
- The four inside corners of both Posts
- All Safety Sheaves
- All Lift Arm Pivot Points



Review Final Checklist Before Operation

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

- Review the Installation Checklist and verify all steps have been performed.
- Make sure 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.
- Make sure both Posts are properly plumbed, shimmed, and stable.
- Check to see that all Anchor Bolts are correctly torqued.
- Lubricate all Cable Sheaves and the inside of the Posts where the Slide Blocks move.
- Make sure both Carriage Bolts are in place and tightened near the top of both Posts.
- Make sure all Cables are properly positioned in their Sheaves.
- Make sure all Cable Sheave retaining pins and/or clips are secure.
- Make sure both Safety Assemblies are connected and working normally.
- Make sure the Cylinder Clamps are secured in place above the Hydraulic Cylinders.
- Make sure that all Safety Locks are clear and free.
- Make sure an Operational Test has been performed.

Leave the Manual with the Owner/Operator

Make sure to leave the *Installation and Operation Manual* with the owner/operator so that it is available to everyone who is going to use the Lift.



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).

\triangle 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. Make sure you have covered all the areas in **Review Final Checklist before Operation** before proceeding further.
- 2. Follow the instructions in **Raising a Vehicle** and **Lowering a Vehicle** to safely raise and lower a Vehicle on the Lift.
- **DANGER** 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.
- Adjust the Lift Arms under the Vehicle so the Lift Pads are directly under the Lifting Points for the Vehicle you are raising. If necessary, use Auxiliary Adapters (see Optional Accessories) for additional height.
- 4. Press the **Up** button to raise the Lift until **just before** the Lift Pads contact the Lifting Points.
- 5. Check the Arm Restraint Gears on all four Lift Arm Assemblies to verify they are engaged. If they are not engaged, move the Lift Arms back and forth until they engage.
- 6. Raise the Lift until the tires of the Vehicle are a few inches off the ground.
- 7. Verify all four Lift Pads are making solid contact with all four Lifting Points.

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

8. Raise the Vehicle approximately three feet off the ground, then release the **Up** button, then *press and hold* the Safety Lock Release Handle and the Lowering Handle to lower the Lift back down.

NOTICE 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.

9. Wait for one minute.

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

- 10. 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.
- 11. 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.
- 12. 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, then drive the Vehicle out.
- 13. With no Vehicle on the Lift Arms, press and hold the **Up** button on the Power Unit.
- 14. Have another person push up the Safety Shutoff Bar until it triggers the Microswitch.

If the Lift Arms do not stop rising when the Microswitch is triggered, the Microswitch is either not installed correctly or not wired correctly. Return to the sections in this manual where installation and wiring of the Microswitch is described to identify and correct the issue.

CAUTION Do not put the Lift into normal operation until you have confirmed that triggering the Microswitch stops the Lift Arms from rising.

Operation

This section describes how to operate your BendPak 10AP Series Lift.

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

DANGER Your safety depends 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. A complete inspection of the Lift is required before using it. Check the Hydraulic System for loose connections including Hydraulic Fittings, Hydraulic Hoses, and any Auxiliary Port Plugs. 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**, option 7 then 4.

- **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 thoroughly read the manual and understands how this equipment works. 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.
- 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 hit 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.
- WARNING Never place yourself or others under a raised Vehicle unless the Lift is engaged on its Safety Locks and the Vehicle is stable on the Lift. Always use Jack Stands to secure the Vehicle when work is under way or if removing components that will significantly change the Vehicle's balance on the Lift.

About Lifting Points, Adapters, and Auxiliary Adapters

An important point 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 Lift Pads (Adapters) 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 manufacturer's 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!



Standard Accessories

The 10AP is supplied with **Four Screw Lift Pad Assemblies** (5215704) Best suited for Vehicles with Unibody construction; they are height adjustable, up to 3-inches.



Optional Accessories

Visit **bendpak.com** for additional Adapters and Auxiliary Adapters (also called height adapters or extenders) available adapters include the following:

- Four Short Auxiliary Adapters 2.25 in. / 56 mm (5215757). 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 (5215758). Allows you to position the height of your Auxiliary Adapters to make better contact with Vehicles.



- **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

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).





Steel Lift Pads — Recommended for additional stability on all vehicles. The flanged edges grip the chassis for an extra-secure hold. (5215763) Set of 4



Replacement Polyurethane Tuf Pads™ — Never use your Lift with missing or damaged Rubber Contact Pads. Always replace Pads when worn or damaged, (5700227) set of 4.



Adapter Tray – Adapter Trays allow storage of Auxiliary Adapters conveniently near the Lift Arms.



Visit **BendPak.com** for accessories and replacement Parts information at **(800) 253-2363**, press option 7, then 5; please have the model and serial number of your Lift available.

Raising a Vehicle

This section describes how to raise a Vehicle on your 10AP Series Two-Post 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:

- 1. Verify all four Lift Arms are on the ground in their full drive-through positions and all personnel are clear of the service bay.
- 2. Check under the Vehicle you are going to raise, check for the type of vehicle frame, and then put the most appropriate Pads/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 Pad/Adapter type best suited for the Vehicle you are raising. If you use the wrong Adapter type, the Vehicle could become unstable on the Lift.
- 3. Drive the Vehicle into the service bay.
- 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, engage 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 damaging 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**, option 7 then 4, 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.

- A warning Do not 'eyeball' the best location for the Pad/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.
- A 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.
- All- Lift Pads/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.
- The overhead switch bar will contact the highest point on the Vehicle.

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

7. Adjust the Lift Arms under the Vehicle until the Pads/Adapters are **directly under** the Lifting Points for the Vehicle you are raising. If necessary, use the included Auxiliary Adapters for extra height.

The Vehicle's Lifting Point locations and Center of Gravity will determine if the Lift is configured in an Asymmetric or Symmetric Configuration.

In an Asymmetric Configuration the Centerline of the Vehicle is behind the Lift Posts.

In a Symmetric Configuration the centerline of the Vehicle is lined up at the Lift Posts.

Refer to the figure below.



Asymmetric Configuration

Symmetric Configuration



Reference only – do not scale.

- 8. Raise the Lift until **just before** the Pads/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. Verify all four Pads/Adapters are making solid contact with the Lifting Points.

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

- 12. Gently rock the Vehicle to make sure 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, as well as injure or kill anyone under the
	Vehicle.

WARNING Always keep a line of sight on the Lift. Ensure personnel and objects are always clear of the Lift.

WARNING 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. Press and hold the **Up** Button.
- 14. Listen as the Lift passes the Safety Locks; you should hear a thump as each side passes by the Safety Locks at approximately the same time.
- 15. When the Vehicle reaches the desired height, go past the next Safety Lock position (you will hear the thump as it passes), then release the **Up** Button.
- 16. *Press and hold* the Lowering Handle, which lowers the Lift onto the Safety Lock position you just passed. Do **not** hold the Safety Lock Release Handle, which is for lowering the Lift to the ground.
- 17. 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.

- 18. Recheck the Pads/Adapters to make sure they are all still making solid contact with the Lifting Points.
- 19. Verify the Lift is engaged on the **same Safety Lock** on both Posts.

▲ DANGER 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.

20. Begin work on the Vehicle.

To raise the Lift: To lower the Lift: 1. Press and hold **Up** Button. 1. Press and hold **Up** Button Safety Lock for two to three seconds. Release 2. When Lift is just past desired Handle height, release Up Button. This moves Lift off its Safety Locks. 3. Press and hold Lowering Handle. 2. Pull down and hold Safety 0 Up Button Lock Release Handle and Do not pull down the Safety Lowering Handle. Lock Release Handle. If you do. the Lift will continue to Lift begins lowering. Lowering lower and will not engage on Handle 3. When Lift is fully lowered, its Safety Locks. Lift engages release Safety Lock on its Safety Locks and Release Handle and stops moving; release Lowering Handle. Lowering Handle when Lift stops. Only leave Lift on Safety Locks or fully lowered. Only leave the Lift on Safety Locks or fully lowered.

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 make sure 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). The Lift begins lowering.
- **NOTICE** Both the Safety Lock Release Handle **and** the Lowering Handle must be held down at the same time to lower the Lift.
- **WARNING** Do not override the Lift controls. For safety purposes, Lift controls 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, injury, or in rare cases, death to persons near the Lift.

CAUTION 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 drivethrough positions to allow an unobstructed exit for the Vehicle.
- 6. Carefully drive the Vehicle out.

About Safety Locks

A Safety Lock **position** is defined as when the Lift is engaged on both Lift's Safety Locks at the same height on both Posts. Having multiple Safety Lock positions allows you to lock the Lift at the best height for what you need to do.

CAUTION Verify that 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.

Between Weldments:



Passing:

Components removed for clarity. Offside Safety Lock not shown. Reference only – do not scale.

As they move past the Safety Locks, the Weldments push the Safety Lock and the Safety Lock Release Handle down. When the Weldment is completely past the Safety Locks, the Safety Lock Spring pulls the Lock back into place. 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, press the **Up** Button and 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 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.

Engaged:

Maintenance

\land DANGER

Before performing any maintenance on your 10AP Lift, verify 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, you could be injured or killed.

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.

To maintain your Lift:

- **Daily**: Keep the 10AP clean. Wipe up any spills, clean any dirt.
- **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 for repair.

- **Daily**: Visually inspect that the 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. BendPak recommends 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 to 85 95 ft lb.
- Every 3 Months: Inspect and Iubricate the Wire Rope, Guide Rollers, Sheaves and Pins.
- 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.
- If the Lift becomes inoperative in a raised position, see the **Troubleshooting** section.
- The 10AP maximum operating hydraulic pressure developed upon lifting its maximum capacity of 10,000 lbs./ 4,536 kg. is 2,300 psi.
- ▲ WARNING Do not operate your Lift if you find maintenance issues; instead, remove it from service and correct the maintenance issues. 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**, option 7 then 4. Online chat is also available at **www.bendpak.com** click the chat icon.

10AP Wire Rope Inspection and Maintenance

The 10AP wire ropes 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 always maintained in a well-lubricated condition.

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, birdcaging, 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.

NOTICE If your Lift is not functioning correctly, you must take it out of service until it is fixed.

- Important: Replace worn, damaged or broken parts with original BendPak or BendPak approved parts or with parts that meet or exceed the original manufacturer specifications.
- Before performing maintenance on your Lift, verify it is disconnected from power. The Lift uses electrical energy; if your organization has Lockout/Tagout policies, implement them before performing any maintenance. If you come into contact with high voltage, you could be injured or killed.

Issue	Action to Take
Lift becomes inoperative in a raised position.	Verify there is sufficient Hydraulic Fluid in the reservoir. Verify the Lift Carriages are above and clear of the Safety Locks. Verify none of the Hydraulic Hoses are pinched or leaking. Verify the Power Unit is being supplied power. Make sure the Lift is not overloaded. Make sure the load on the Lift is balanced. Contact bendpak.com/support . or by phone at (800) 253-2363 , option 7 then 4.
Arms move erratically or squeak when	Move the Lift Arms up and down a few times to flush any residual air
in use.	from the Hydraulic System.
Offside Lift Head will not lower.	See broken Safety Cable procedure below.
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.

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**, option 7 then 4. Online chat is also available at **www.bendpak.com** click the chat icon.



Broken Safety Cable Procedure

If the Safety Cable breaks, the Powerside Lift head will lower but the Offside Lift Head will not.

To release the Offside Safety Lock:

- 1. Raise the Lift Heads off the Safety Locks.
- 2. Have an assistant reach through the access hole with a stiff wire or pick to pull the Safety Block away from the Lift Head. See figure below.
- 3. Hold in the Safety Release on the Powerside Lift Post while holding the lower handle on the Power Unit.
- 4. When the Lift heads are on the ground and the Lift is in a safe condition, remove power from the Lift and replace the Safety Cable.



Reference only – do not scale.

Troubleshooting Lift Arm Lock Disengagement

Avoid excessive Shim heights! A new concrete cutout and steel reinforced pour are recommended to correct out of level conditions in excess of 3°.

Some floors with excessive out of level conditions may require Shim heights that reach or exceed .5 in. / 12.7 mm. When the Shim Height reaches this level, the Lift Arm Lock Pins may not function to disengage the Lift Arms when completely lowered. To correct this condition, the Arm Lock Pins include an M12 x 1.75 internal thread, approximately 12 mm deep. A mating M12 Hex Head Bolt with Lock Washers, or a backing nut (not supplied) may be used to extend the contact point of the Arm Lock Pins. Adjust the Bolt head position to disengage the Lock as required. Refer to the figure below.



Disposing of Used Hydraulic Fluid

Used Hydraulic Fluid cannot be disposed of by dropping it into the trash or dumping into the street. Hydraulic Fluid has toxic ingredients that are harmful to the environment. Either recycle the Hydraulic Fluid or drop it off at a hazardous waste collection facility. Dirty or contaminated fluid must be treated as hazardous waste. 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 are unable to find an appropriate facility, the website **earth911.com** has resources that may be of help.

10AP Lift Disposal - End of Service Life

Once your Lift has reached the end of its service life it must be disposed of properly. Metal recyclers will be able to advise on methods and costs to remove the Lift and will reuse the materials, diverting them from landfills. The best option is to contact a metal recycling center and discuss the size and weight of the Lift to determine if the facility can deconstruct and recover the usable components and metals.

The Hydraulic Cylinders, Hoses, Fittings, and the Power Unit itself must be disposed of in accordance with current national, state, and local regulations governing the use and disposal of hazardous materials. These components and any used Hydraulic Fluid must not be disposed of by dropping it into the trash or dumping it into the street. The Hydraulic Fluid contains toxic ingredients that are harmful to the environment.

These components and the Hydraulic Fluid are required to be recycled or must be delivered to a hazardous waste collection facility.

If you have large amounts of Hydraulic 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 and materials 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** has resources that may be of help.

Wiring Diagrams

This section includes wiring information for the Microswitch(es).

All wiring **must** be performed by a licensed, certified Electrician in accordance with all local and national electrical codes. Make sure that main electrical power has been disconnected from the Lift and cannot be re-energized until all procedures are complete. If your organization has Lockout/ Tagout policies, make sure to implement them after connecting the Lift to power.





Power Unit Wiring



208-230VAC, 1 PH, 50/60 Hz. L 2 HP, 2930/3520 RPM



Labels



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Parts Drawings



















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 SSEMIPPING INSTRUCTIONS FOR FINAL PACKAGING

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 ASSEMBLE ITEMS AS SHOWN

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BP BendPak

1645 LEMONWOOD DR. SANTA PAULA, CA 93060

10AP LIFT HEAD ASSEMBLY

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Automotive Lift Institute (ALI) Store

You probably checked the **ALI's Directory of Certified Lifts** (www.autolift.org/ali-directory-ofcertified-lifts/) before making your most recent Lift purchase, but did you know the **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.



ALI Lift Inspector Certification Program Registration. Become a ALI Certified Lift Inspector.



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



ANSI/ALI ALIS Standard. Safety Requirements for Installation and Service.



Lifting It Right. A hardcopy version of the *Lifting It Right* safety manual from the Automotive Lift Institute.



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



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



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



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

Visit today and get the training and materials you need to work safely: www.autolift.org/ali-store/.

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