

INSTALLATION & OPERATION MANUAL

HW-10ASY(AP-10ASY) 2-Post Over Head Car Lift 10,000LB Capacity



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https://www.apluslift.com_help@apluslift.com

Specification and Features

- Heavy duty design:
 - Column steel thickness: 13/64"Carriage steel thickness: 15/64"
 - Carriage yoke thickness: 9/16"
 - o Arm steel thickness: 15/64"
 - Base plate steel thickness: 5/8"
- · Driving mode: dual hydraulic cylinders, chain drive
- Voltage: 220V 60Hz
- Lifting capacity: 10,000 LB
- Supports Symmetrical Installation with Columns Facing Each Other or Asymmetrical Installation with Columns Rotated 30 Degrees!
- · Safety mechanism:
 - Single point safety lock release
 - Automatic arm lock restraints
 - Relief valve built in power pump to prevent overloading
 - Door guards (protection rubber)
 - Heavy duty 3/8" diameter cable and 5" pulley that reduce high stress on synchronization process and increase cable life
 - Ultra-high molecular self-lubricating nylon slider that ensures carriage smooth moving up and down
- Control System:
 - Lifting operation by pressing "UP" button on motor
 - Manual lowering operation by pressing lever
 - Relief valve built in power pump to prevent overloading
 - A 4-piece truck adapter set included
 - Overall height: 143 3/16"
 - Overall width: 139 1/8" or 140 15/32" (Columns Rotated 30 degrees)
 - Maximum lift height with truck adapters: 81"
 - Maximum lift height without truck adapters: 75"
 - Minimum height of arm top: 4.5"
 - Carriage to carriage width (drive-through clearance): 104" or 97" (Columns Rotated 30 degrees)
 - Column to column width: 114" or 107" (Columns Rotated 30 degrees)
 - Column cross section: 11" L x 7" W
 - Time to full rise: 50 sec
 - Motor: 3 HP
- Shipping weight: 1,470 LB and 120 LB; shipping package size: 113"L x 22"W x 40"H (car lift) and 33"L x 17"W x 14" H (2 feet height extension crate)

Diagram with Standard Columns

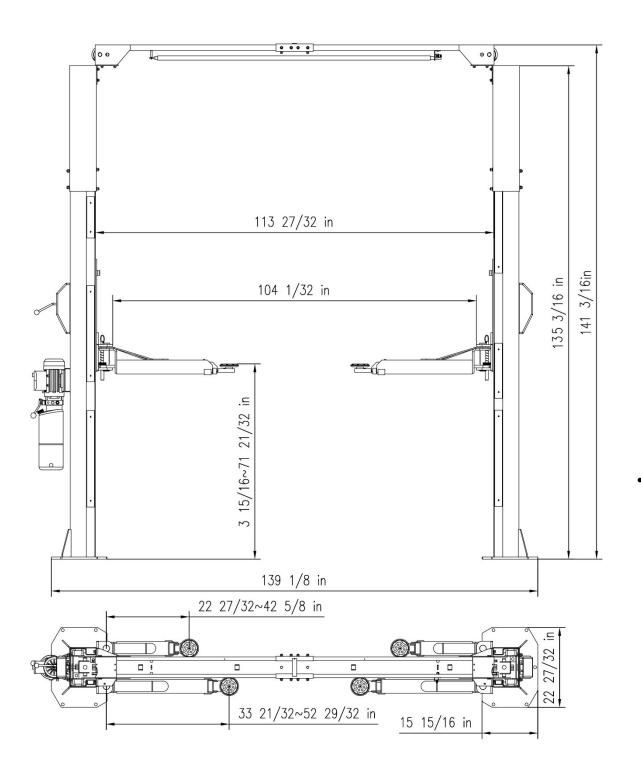
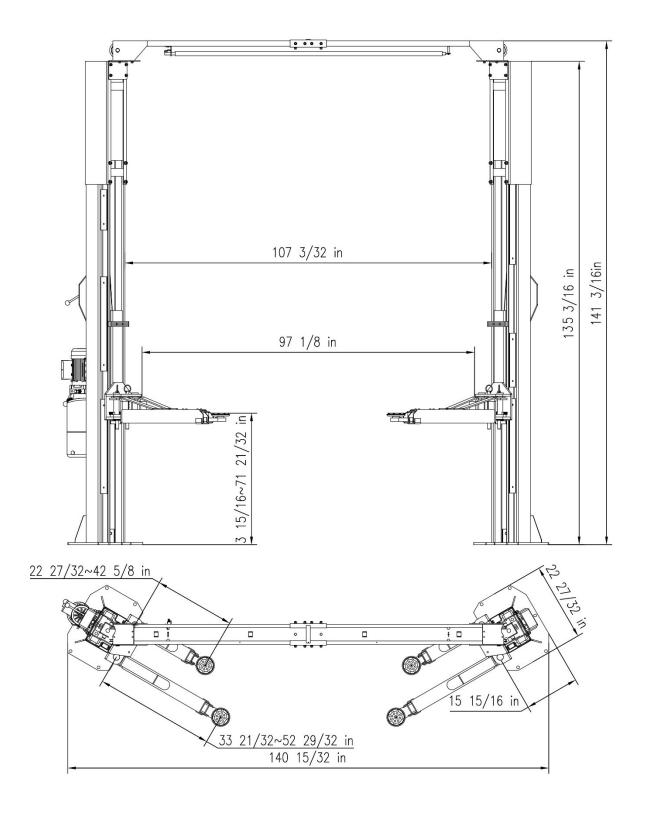


Diagram with Rotated Columns



Important Information

READ THIS BEFORE INSTALLING THE LIFT! Improper installation can cause injury or damage!

- Read this installation and operation manual in its entirety before attempting to install the lift. Manufacturer or distributor assumes no responsibility for loss or damage of any kind, expressed or implied, resulting from improper installation or use of this lift. Always use professional installation companies.
- All persons using the equipment must be responsible, qualified, and carefully follow the operation and safety guidelines contained in this manual.
- A level floor is required for proper lift installation and operation.
- DO NOT install this lift outdoors. Outdoor installation voids warranty.
- DO NOT install this lift on any asphalt surface. Recommend on concrete surface a minimum of 6" thick and 3,500 psi tensile strength with steel or fiber mesh reinforcement. If you always lift vehicles below 9,000LB, 4" thick concrete will be fine.
- DO NOT install this lift over concrete expansion joints or cracks. (Check with your building architect)
- DO NOT install this lift on an upper floor without written authorization from your building architect. Should only be installed on a ground floor without a basement.
- DO NOT attempt to lift only part of a vehicle. This lift is intended to raise the entire body of a vehicle only. This will bend the arms and void the warranty.
- NEVER lift any persons or vehicles containing persons. This lift is designed to lift empty vehicles only.

Preparation

- Concrete rotary hammer drill with 3/4" drill bit
- Rubber hammer
- Chalk line
- Sockets and open wrench set
- Ratchet driver
- Vise grips
- Tape measure
- Screwdrivers
- Torque wrench
- Two 10' to 12' step ladders
- 4' level
- 12" crescent wrench
- AW32 non-foaming hydraulic fluid (4 gallons)

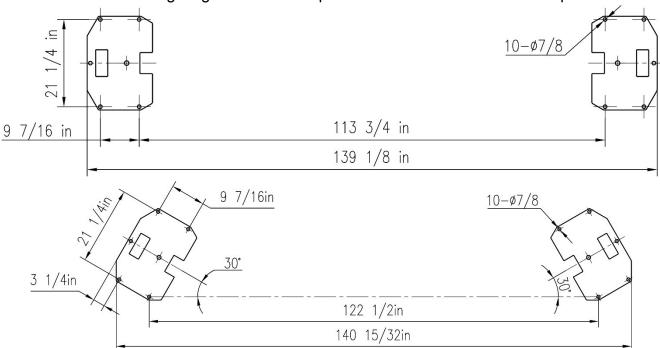
Installation Requirements

- Use proper lifting techniques when lifting individual pieces. Use plenty of help when moving lift pieces. Please wear work gloves to protect your hands.
- The lift should be installed on a leveled floor with a slope of less than 3 degrees.
- Do not install this lift on asphalt, wood, or any other surface other than described.
- Do not install this lift outdoors. Outdoor installation voids warranty.
- Do not install lift in a basement or on any level other than ground level (such as the second floor) without written authorization from your building engineer or architect.
- Concrete surface shall have a minimum of 6" thick and 3,500 psi tensile strength with steel or fiber mesh reinforcement (If you always lift vehicles below 9,000LB, 4" thick concrete will be fine). Minimum size of a slab: 216"L x 100"W x 6"H 3500 psi.
- Alternatively, columns can be installed on two concrete footings. 2 ft x 2 ft with 30" deep (or 3 ft x 3 ft with 12" deep) and 3500 psi tensile strength with steel or fiber mesh reinforcement.
- Maintain a 6" minimum distance from a slab edge. Do not install this lift over expansion joints or cracks. Check with your qualified engineer or architect.
- Leave spaces on all 4 sides when placing the lift. Recommended at least 2' distances on all 4 sides when a vehicle is loaded.
- Improper installation can cause damage or injury. Manufacturer will assume no liability for loss or damage of any kind, expressed or implied, resulting from improper installation or use of this product.
- The lift is for lifting vehicles only. It is not designed to lift a person or an equipment with a person.
- Read this installation manual in its entirely before attempting to install this lift.
- Use of this lift should follow the operation and safety guidelines set forth in this manual.

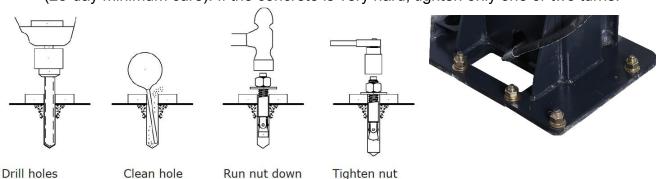


Anchoring Tips

Check the following diagram for the footprint of columns with anchor bolts positions.



- Use a concrete rotary hammer drill with 3/4" drill bit. Do not use excessively worn or incorrectly sharpened drill bits.
- Keep the drill in a perpendicular position when drilling. Let the drill do the work. Do not apply excessive pressure.
- Lift the drill up occasionally and clean residue in the hole.
- Drill the holes 1" deeper than the length of the anchor bolts. Drill through the concrete is recommended (when you move the lift to a new location, you may hammer down the anchor bolts instead of cutting them off).
- For better holding, power blow dust the hole.
- Place a flat washer and hex nut over threaded end of anchor, leaving approximately 1/2" of thread exposed. Carefully tap the anchor. Do not damage threads. Tap the anchor into the concrete until the nut and flat washer are against the base plate. Do not use an impact wrench to tighten. Tighten the nut two or three turns after the concrete is cured (28-day minimum cure). If the concrete is very hard, tighten only one or two turns.



Installation Instructions

Step 1 (Preparation)

- Please carefully remove all the parts from the package.
 - Remove any loose cables, hoses, part boxes, hydraulic power unit, etc. if they are inside the columns or banded to the columns.
 - Remove the power unit box and four swing arms.
 - Remove the bolts holding the two columns together. Remove top and bottom columns out of the skid and discard the steel rack.
 - Remove two column extensions from two columns.
- Compare the parts with the part list (at the end of the manual) and contact us if there are any parts missing.
- Please read the installation requirements and anchoring tips in previous pages for concrete requirement, layout, and drill holes for anchor bolts. The area where the lift will be installed should be free of overhead obstructions such as heater, building support, or electrical lines.
- Once a location is determined, use a carpenter's chalk line to layout a grid for the column locations
- After the post locations are marked, use a chalk to make an outline of the posts on the floor at each location using the post base plates as a template.
- Double check all dimensions and make sure that the layout is perfectly square.

Step 2 (Installing Columns)

- Bolt each column extension to each column.
- Determine the side that the power unit column will be located. The power unit column can
 be located on either side. Keep in mind this is the column where your main electrical
 power supply will be connected. It is recommended to locate the power side with the
 passenger side of the vehicle when loaded on the lift in order to save steps during
 operation.
- Double check measurements and make sure that the base plate of each column is square and aligned with the chalk line.
- Stand up the power unit column (the one with the power unit bracket welded on) and position it inside the chalked lines. The column should face straight toward the other column.
- Stand up the other column opposite to the main power unit column inside the chalk lines.
- Make sure the height difference of two columns is within 1 inch, otherwise the carriages will not be locked at the same (height) locking positions.
- Using a tape to measure from back corner to back corner of the base plate to ensure columns are square to each other. Adjust the columns as needed to obtain the best fit.
- Drill anchor holes with 3/4 inch drill bit into concrete following **Anchoring Tips** on page 4.
- Assemble washers and nuts on the anchors and then tap into each hole with a rubber hammer until washers rest against the base plate. Do not tighten anchor bolts at this time.
- Use a level to check the level of each base plate. Place horseshoe shims under the base plate (near anchor bolts) as needed. When base plates are leveled, columns may tilt outward slightly. When a vehicle is loaded, the columns will flex inward to correct it.
- Tighten 10 anchor bolts and recheck for level. Hammer the anchor bolts all the way down. Tighten anchor bolts using a torque wrench to 125 ft. / lb. DO NOT use an impact wrench when tightening the anchor bolts!
- Manually lift the carriage on each column about waist high. Let carriages down and allow them to set on safety latch stops. Make sure they are at the same height. Double check the latches before working under the carriages.





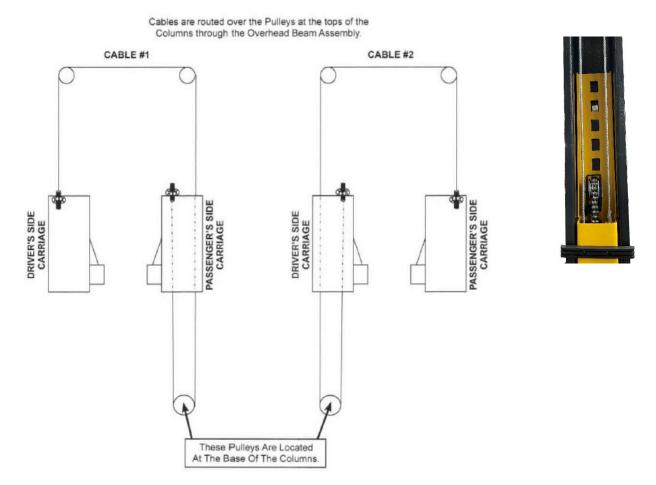
Step 3 (Installing Overhead Beam)

- Assemble the overhead beam by connecting two short beam pieces with the connector.
 Bolt two pieces of the connector together
- Bolt the overhead beam to two columns. Make sure to bolt them together by installing the bolts from inside the beam to avoid interference with the cables when operating the lift.



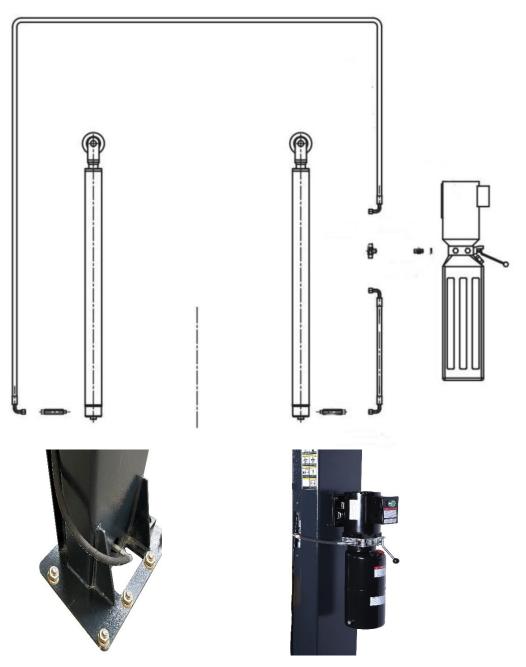
Step 4 (Installing Equalizing Cables)

- Take the equalizer cables. Using vise grips and a socket, tighten the cable nut half way down the threads.
- Stand in front of each carriage and find two holes on the top of the carriage.
- Take the threaded end (the end without a nut) and run it through the left side of the carriage. See figures below for cable routing. Do not tighten cables at this time. Just start them on the treads.



Step 5 (Installing Power Unit and Routing Hydraulic Hoses)

- Mount the power unit onto the main side column with four hex bolts.
- Connect two 4 1/4" fittings to both cylinders. Connect T-fitting to the long hose and medium hose.
- Connect short hydraulic hose to the power unit and the T-fitting.
- · Connect medium hose to the T-fitting and the cylinder
- Connect long hydraulic hose to the T-fitting and the cylinder in the opposite post. Run the long hose over the overhead beam.
- See figures below for hose layout and routing to the power unit. Do not over tighten the fittings.



Step 6 (Installing Swing Arms)

- Locate the 4 swing arms and swing arm pins. Take one of the arms and insert it over the
 hole in the carriage torsion tube. Line up the holes and insert the pin. Repeat for the
 three other arms.
- We recommend putting 3-stage arms (shorter ones) on the front and putting 2-stage arms (longer ones) on the back.



Step 7 (Electrical Connection to Power Unit)

- Warning: the wiring must comply with local code. Please find a certified electrician to connect the power unit to a power outlet. Please protect each circuit with a time delay fuse or circuit breaker.
- The car lift uses a 220V single phase power unit. The running amperage is 10A. Recommend a 30A breaker and a 10-gauge wire.
- For 220V single split phase with two hot wires:
 - wire brown to hot 1
 - wire blue to hot 2
 - wire yellow/green to ground
- For 220V power with one hot and one neutral wires:
 - wire brown to hot
 - wire blue to neutral
 - wire yellow/green to ground
- See the figures on the right for reference.





Step 8 (Hydraulic Fluid and Adjustment)

Cable Adjustment

- Place a pair of small or medium vise grips around the shoulder of the long threaded adjusting bolt on the cable to make any adjustments.
- Use a deep socket to adjust the slack out of the cable. Adjust tension to cables equality.
- DO NOT over tighten. Note: If one of the cables is tighter than the other, the carriage will go up uneven. These should be tightened like a banjo string or fan belt.

Hydraulic Fluid

- Remove vent plug from the top of the reservoir. You are going to fill the tank with fluid.
 AW 32 or 46 hydraulic oil is recommended. We do not recommend the transmission fluid as it is too thin. The unit will hold approximately 2.64 gallons (10 liters) of fluid.
- If the arms go all the way to the top, hydraulic oil will flow to two cylinders. If the arms go all the way to the bottom, hydraulic oil will flow back to the pump.

Carriage Adjustment and Synchronization

- One of the most important things to remember is not to tighten down one side more than
 the other. The key is to tighten one side a half dozen turns then the opposite side a half
 dozen turns. After getting both cables equally tight (YOU SHOULD BE ABLE TO MOVE
 THE CABLES ABOUT AN INCH BACK AND FORTH WITH SLIGHT PRESSURE LIKE A
 FAN BELT OR A BANJO STRING) raise the lift all the way up by pressing the "UP"
 Button on the power unit. Do not bottom the lift out at the top by holding down on the
 switch.
- Raise the lift off the latch (lock) by pushing the power button, this will enable you to pull each release cable ring located at the bottom of both carriages. Pull down on the lowering valve handle (lever) on the power unit and lower the lift all the way to the floor. Raise the lift again and listen for the clicking of the safety locks in each column. Determine which side is slower and tighten the adjusting bolt on the opposite side carriage. Remember to only tighten a few turns at a time until the both locks click at the same time when raising the lift. Cycle the lift up and down. Repeat the adjustment until the carriages are within a 1/4" of each other or the clicks are almost at the same time with each side. When cables are adjusted properly, they should be fairly tight.

Safety Latch Adjustment

- If the safety latch in either column does not operate, adjust with the procedure below.
 - DO NOT set the lift on the safety latch for this adjustment. Allow the hydraulic system to hold the lift during the adjustment. DO NOT put a vehicle on the lift
 - Remove the plastic cover. Raise the lift until you can see the latch through the access hole on the column.
 - Locate the latch
 - If the latch is not working during descent, loosen the adjustment bolt one full turn. Test the latch and follow this procedure until the latch operates.
 - If the latch is not working during ascent, tighten the adjustment bolt one full turn. Test the latch and follow this procedure until the latch operates.

Step 9 (Installing Safety Bar)

- · Mount safety bar to the overhead beam
 - Mount switch bracket at the power unit side so that limit switch can be mounted and connected to the power unit
 - Please note the other end of the safety bar is mounted with a clevis pin
- See the figures below for the reference.





Step 10 (Installing Single release cable)

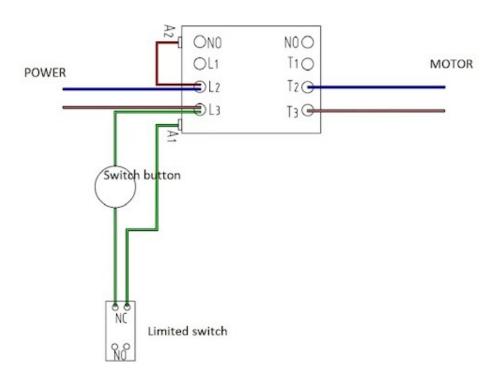
- Install the release cable into the releasing mechanism at both side
- The cable will go over the cross beam from one side to the other side.



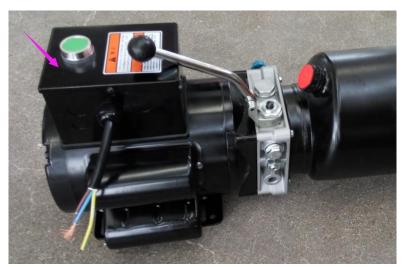


Step 11 (Installing Limit Switch)

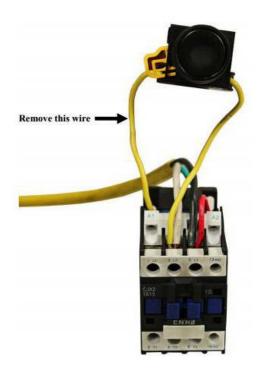
• See the figure below for reference



• Open the power unit cover



 After open the power unit cover, remove the wire in the picture (From push button to A1 on the contactor)



 Connect the limit switch wire (recommend gauge 12 wire) to the connector (A1) and start button.





• Mount the power unit panel and screw tight

Step 11 (Final Setup)

Check Assembly

- Check all bolts and nuts to make sure they are tight. Do not use an impact gun on concrete anchors.
- Check all fittings or leaks. If necessary, make sure the arm lock restraints are engaging
 properly and smoothly. If not, tap the main lock forward or backward as needed with a
 rubber mallet to insure proper engagement on all 4 gears with the arm restraint locks.
- Cycle lift up and down to insure carriages are synchronized.

Screw-In Pads and Truck Adapters

- Before lifting a vehicle, please adjust the height of screw-in pads to fit.
- Use truck adapters if needed. Please remove the snap rings from the screw-in pads before using the pads with truck adapters.
- Never exceed 9" of pad height.

Toe Guards and Tool Trays

• Toe guards and tool trays may be installed on the side of 2-stage arms. Please check the picture on the right.

Test & Adjust Lift

- With the power properly hooked up and hydraulic oil in the pump reservoir, push the push button on the side of the motor to raise the carriages off the locks. Release the push button and then pull the lock release cable under each carriage to release the locks. Run the lift all the way up and down two more times to bleed all the air from the system.
- While running the lift, listen to safeties clicking. Each side should click simultaneously or with-in a 1/2 second of each other. If they are not clicking together, then adjust the cables to compensate by tightening the side opposite the one that is clicking last at the cable bolt at the top of the carriage on the same side.
- Remember not to over tighten cables they should be firm, much like a banjo string or a fan belt in a car.

Bleed Air from Cylinders

- Place a vehicle on the lift and raise until swivel pads are in contact with the frame of the
 vehicle. Raise the vehicle about 3 feet and then lower the vehicle until the tires touch the
 floor. Keep raising and lowering the vehicle a few times and increase the height each
 time until the vehicle completely reaches to the top. This procedure pumps all the air from
 the system.
- Lifting speed will be faster (be normal speed) after air is bled out.

Please Check https://www.apluslift.com/pages/faq for Troubleshooting. Please Check Operation, Safety, and Maintenance Before Use.



Operation

Only authorized personnel can operate the lift. Please read operating and safety procedures carefully before operating the lift.

- Maintain and inspect lift in accordance with the owner's manual. Never exceed the capacity.
- Do not operate a lift that is damaged or in need of repair.
- Allow only authorized persons in the lift area.
- Keep the lift area clear when raising or lowering the lift. NO RIDERS.
- Keep hands and feet away from pinch points at all times.
- Never override the lift's operating and safety controls.
- If a vehicle is suspected of falling, clear the area immediately.
- Do not rock the vehicle while positioned on the lift.
- Always use safety jack stands when installing or removing parts from a vehicle.

Vehicle Loading

- Position vehicle at the center of gravity between the pads. Make sure the vehicle is neither front or rear heavy.
- Place pads at vehicle manufacturer's recommended pick up points. Make sure the pads are in proper and safe positions to support the vehicle.
- Use caution before lifting pickup trucks, SUVs and other framed vehicles.
- Use truck adapters as needed. Never exceed 9" of pad height.

Raising Lift

- Push up switch to raise lift (make sure arm restraints engage or stop and slightly move arm to allow gear to mesh) until tires clear the floor.
- Stop and check for secure contact on adapters and vehicle weight distribution. If secure, raise to your desired height.
- ALWAYS lower the lift into the nearest lock position by pressing the lower lever to relieve the hydraulic pressure and then let the latch set in a lock position.
- Never work under a lift when the lift is not in a locked position.

Lowering Lift

- Clear all obstacles under the lift to ensure that only the operator is near the lift area.
- Stay clear of lift and raise the lift off the safety locks by 2".
- Pull the safety latch which releases the cable ring one by one on each carriage and press
 the lower lever to lower the lift.
- Unload the lift by first completely lowering the lift and then swinging the arms to drive through position before moving the vehicle.

Safety

NEVER WORK UNDER OR NEAR THIS LIFT WITHOUT THE LOCKS BEING ENGAGED. THE POWER UNIT IS NOT DESIGNED TO BE A LOADING-HOLDING DEVICE. NOT USING THE LOCKS WILL RESULT IN A PREMATURE FAILURE TO THE CYLINDERS, PUMP, AND/OR CABLES AND CAN CAUSE SERIOUS PROPERTY DAMAGE OR PERSONAL INJURY! FAILURE TO HEED THIS WARNING WILL RESULT IN IMMEDIATE TERMINATION OF YOUR WARRANTY!

FAILURE TO PERFORM THE DAILY PRE-OPERATIONAL CHECK CAN RESULT IN EXPENSIVE PROPERTY DAMAGE, LOST PRODUCTION TIME, SERIOUS PERSONAL INJURY, AND EVEN DEATH. THE SAFETY LATCH SYSTEM MUST BE CHECKED TO BE WORKING PROPERLY BEFORE THE LIFT IS PUT TO USE.

NOTE: IT IS CUSTOMER'S OR USER'S RESPONSIBILITY TO MAINTAIN THE PROPER TENSION ON THE EQUALIZER CABLES. ASK A QUALIFIED TECHNICIAN TO MAINTAIN THE CABLE ADJUSTMENT AFTER THE LIFT IS INSTALLED.

IF AT ANY TIME YOU ARE NOT SURE HOW TO SAFELY OPERATE THE LIFT, STOP USING THE LIFT AND CALL YOUR DISTRIBUTOR FOR ASSISTANCE.

- Lubrication. Lubricate all nylon block corners inside each column with heavy duty bearing grease before the first operation and once every six months. Lubricate chains every six months.
- Anchor Bolts. Check anchor bolts daily in the first week of use. DO NOT use an impact wrench. After the first week, check them monthly for the first six months. Tighten the anchor bolts if necessary.
- **Concrete**. Check concrete for stress cracks daily in the first two weeks of use. After the first two weeks, check it monthly.
- Bolts and Nuts. Check all bolts and nuts every six months.
- Hydraulic Oil. The hydraulic oil should be changed once a year, along with cleaning the suction filer.

Safety Tips

- Never allow unauthorized persons to operate the lift. Thoroughly train new employees in the use and care of the lift.
- Be aware that the power unit operates at high pressure.
- Remove passengers before raising a vehicle.
- Prohibit unauthorized persons from being in shop area while the lift is in use.
- Total lift capacity is 10,000 lbs. @ 2,500 lbs. per lifting pad. Do not exceed the maximum weight capacity of the lift.
- Before lifting the vehicle, walk around the lift and check for any objects that may interfere with the operation of the lift and safety latches such as tools, air hoses, and shop equipment.
- When approaching the lift with a vehicle, make sure to place the center of the vehicle between the columns so that the tires will clear the swing arms easily.
- Slowly drive the vehicle between the columns. It is recommended to have someone outside the vehicle to guide the driver.

- Always the lift vehicle using all four pads.
- Never use the lift to raise one end or one side of a vehicle.
- Always raise the vehicle about 3" and check for stability by rocking the vehicle.
- Prior to lowering the vehicle, walk around the lift and check for any objects that might interfere with the operation of the lift and safety latches; tools, air hoses, shop equipment, etc.
- Always lower the lift to the lock position before going under the vehicle.
- Never allow anyone to go under the lift when raising or lowering.

Maintenance

The following periodic maintenance schedule is the minimum requirements at the minimum intervals. Periodic maintenance is to be performed on a daily, weekly, and yearly basis.

WARNING!! OSHA AND ANSI REQUIRE USERS TO INSPECT LIFTING EQUIPMENT AT THE START OF EVERY SHIFT. THESE AND OTHER PERIODIC INSPECTIONS ARE THE USER'S RESPONSIBILITY.

FAILURE TO HEED THIS WARNING CAN RESULT IN PROPERTY DAMAGE, SERIOUS INJURY, OR DEATH. IF YOU HEAR A NOISE NOT ASSOCIATED WITH NORMAL LIFT OPERATION OR IF THERE ARE ANY INDICATIONS OF IMPENDING LIFT FAILURE, CEASE OPERATION IMMEDIATELY! INSPECT, CORRECT, AND/OR REPLACE PARTS AS NEEDED.

Daily Pre-Operation Check (8-Hours)

- 1. Check the safety lock audibly and visually while in operation
- 2. Check the safety latches for free movement and full engagement with the rack.
- 3. Check the hydraulic connections, and hoses for leakage.
- 4. Check the chain connection: cracks, bent, and loose links.
- 5. Check the cable connection: cracks, bent, and looseness.
- 6. Check for frayed cables in both raised and lowered positions.
- 7. Check the snap rings at all rollers and sheaves.
- 8. Check the bolts, nuts, and screws and tighten if needed.
- 9. Check the wiring & switches for damage.
- 10. Keep the base plate free of dirt, grease or any other corrosive substances.
- 11. Check the floor for stress cracks near anchor bolts.
- 12. Check the swing arm restraints.

Weekly Maintenance (every 40-Hours)

- 1. Check the anchor bolts torque to 125 ft/lbs. for the 3/4-inch anchor bolts. Do not use an impact wrench to tighten the anchor bolts.
- Check the floor for stress cracks near anchor bolts.
- 3. Check the hydraulic oil level.
- 4. Check and tighten the bolts, nuts, and screws.
- 5. Check the cylinder pulley assembly for free movement or excessive wear on the cylinder yoke or pulley pin.

6. Check the cable pulley for free movement and excessive wear.

Yearly Maintenance

- 1. Lubricate the chains
- 2. Grease the rub blocks and column surface contacting the rub blocks
- 3. Change the hydraulic fluid. It is an important maintenance procedure to keep the hydraulic fluid clean. No hard fast rules though. Operating temperature, type of service, contamination levels, filtration, and chemical composition of the fluid should be considered. If operating in a dusty environment a shorter interval may be required.

Special Maintenance Tasks (performed by a trained maintenance expert only)

- Replace the hydraulic hoses.
- Replace the chains and rollers.
- Replace the cables and sheaves.
- Replace or rebuild the cylinders.
- Replace or rebuild the pumps / motors.
- Checking of hydraulic cylinder rod and rod end (threads) for deformation or damage.

CAUTION! Relocating or changing components may cause problems. Each component in the system must be compatible. An undersized or restricted line may cause a drop in pressure. All valve, pump, and hose connections should be sealed and/or capped prior to use. Air hoses can be used to clean fittings and other components. However, the air supply must be filtered and dry to prevent contamination. Most important is cleanliness. Contamination is the most frequent cause of malfunction or failure of hydraulic equipment.

Part List

| Item | Description | Quantity |
|------|---|----------|
| 1 | Overhead beam – two beam pieces and (one connector) | 1 |
| 2 | M10×25 hex bolts, washers, and nuts (connect overhead beam pieces) | 8 |
| 3 | M10×25 hex bolts, spring washers and nuts (connect overhead beam and columns) | 8 |
| 4 | Safety bar | 1 |
| 5 | Switch bracket for safety bar. Bolts in item 28 | 1 |
| 6 | Clevis Pin for safety bar (mount on the other side) | 1 |
| 7 | Limit switch with mounting hardware | 1 |
| 8 | Top columns extension | 2 |
| 9 | Columns (pre-assembled with cylinders) | 2 |
| 10 | M12×30 Hex bolts, washers, and nuts (connect column extensions and columns) | 16 |
| 11 | Lift arms | 4 |
| 12 | Arm pins (connect arms to carriage) | 4 |
| 13 | Racks (toe guard) | 2 |
| 14 | M10×16 socket bolts (mount the racks to arms, preinstalled) | 8 |
| 15 | Tool box (put on the racks) | 2 |
| 16 | Power unit (220V single phase with manual release handle) | 1 |
| 17 | M8×25 bolts, washers & nuts (mount power unit on the column) | 4 |
| 18 | Hydraulic long hose (cylinder fitting to T-fitting) 31 feet (9460mm) long M16×1.5 female ends | 1 |
| 19 | Hydraulic Medium hose (cylinder fitting to T-fitting) 4 feet (1285mm) long | 1 |
| 20 | Hydraulic short hose (power unit fitting to T-fitting) 1 foot (335mm) long | 1 |
| 21 | Extended fitting 4 1/4 inches (connect two hoses to two cylinders) M16×1.5 male to M14×1.5 male | 2 |
| 22 | T-fitting (connect power unit to two hoses) M16×1.5 two males & one female | 1 |
| 23 | Truck adapters | 4 |
| 24 | Screw-in pads | 4 |
| 25 | Wire rope equalizer cables with M18×2.5 thread-on nuts & washers | 2 |
| 26 | Anchor bolts (3/4"×6") | 10 |
| 27 | Door guards' protection rubber | 2 |
| 28 | M6×16 socket bolts (mount door guards to carriages) | 4 |
| 29 | M6×30 hex bolts, washers & nuts (mount limit switch bracket, Item 5) | 3 |
| 30 | Single release cable L307 inches | 1 |

Black Color: RAL 9005. Yellow Color: RAL 1023.

Limited Warranty

Limited Three-Year Warranty

Songa Enterprises Inc (DBA APlusLift) offers a limited three-year warranty to the original purchaser of lifts and wheel service equipment in the United States and Canada. APlusLift will replace, without charge, any part found defective in materials or workmanship under normal use, for a period of three years after purchase. APlusLift offers free shipping of parts to the lower 48 states of the US. The purchaser is responsible for shipping charges to other states, countries, or territories. This warranty does not apply to equipment that has been improperly installed or altered or that has not been operated or maintained according to specifications.

This warranty does not cover

- Parts needed for normal maintenance
- Wear parts, including but not limited to cables, slider blocks, chains, rubber pads and pulleys
- Replacement of lift and tire changer cylinders after the first 30 days. A seal kit and installation instructions will be sent for repairs thereafter.
- On-site labor
- Lift relocation

Upon receipt, the purchaser must visually inspect the equipment for any potential freight damage before signing clear on the shipping receipt. Freight damage is not considered a warranty issue and therefore must be noted for any potential recovery with the shipping company.

The customer is required to notify APlusLift of any missing parts within 30 days. Missing power units and/or motors must be reported at time of delivery. APlusLift will replace any defective part under warranty at no charge as soon as such parts become available. Anything reported after three days of receipt will be replaced or returned to us at the purchaser's expense.

APlusLift reserves the right to make improvements and/or design changes to its lifts without any obligation to previously sold, assembled or fabricated equipment.

There is no other express warranty on the APlusLift lifts and this warranty is exclusive of and in lieu of all other warranties, expressed or implied, including all warranties of merchantability and fitness for a particular purpose. To the fullest extent allowed by law, APlusLift shall not be liable for loss of use, cost of cover, lost profits, inconvenience, lost time, commercial loss or other incidental or consequential damages.

This Limited Warranty is granted to the original purchaser only and is not transferable or assignable.

Some states do not allow exclusion or limitation of consequential damages or how long an implied warranty lasts, so the above limitations and exclusions may not apply. This warranty gives you specific legal rights and you may have other rights, which may vary from state to state.