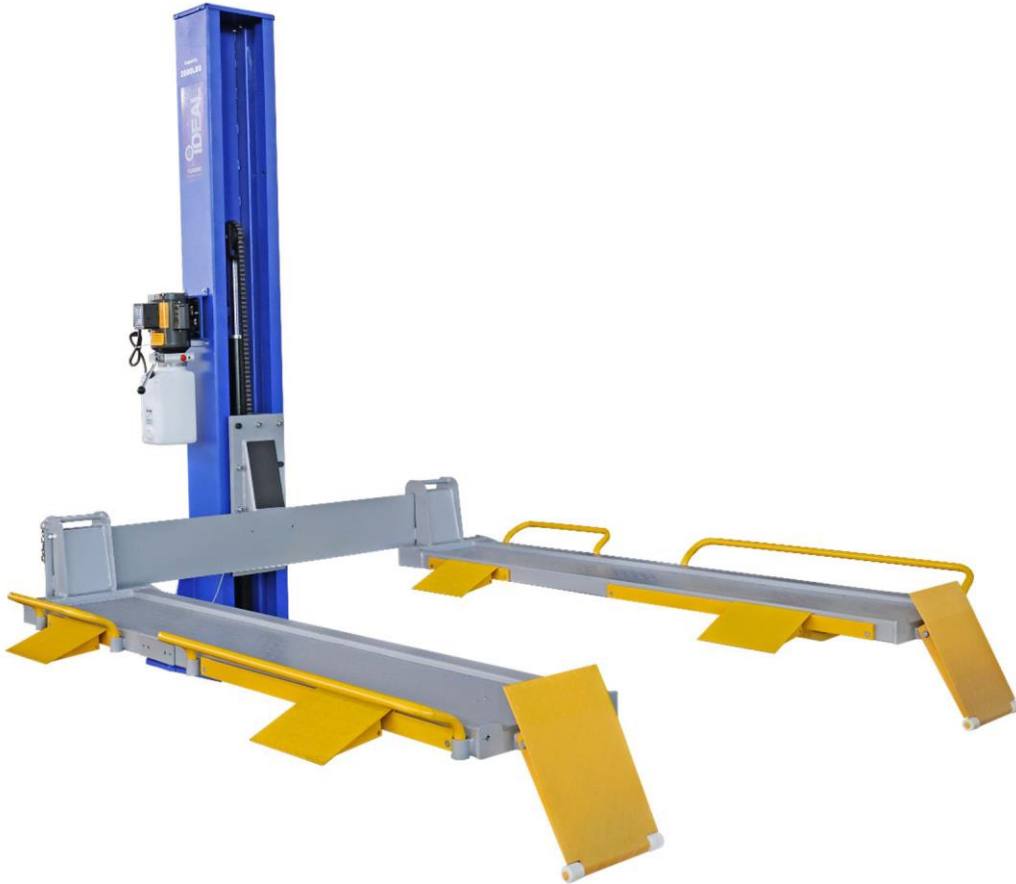


SINGLE COLUMN UTV & MOWER STORAGE / SERVICE LIFT

2,000 lbs. Capacity (908 Kg)



INSTALLATION & OPERATION MANUAL

IMPORTANT!!

READ MANUAL THOROUGHLY BEFORE ASSEMBLING, OPERATING, OR MAINTAINING LIFT TABLE. WHEN COMPLETED WITH ASSEMBLY, ENSURE TO RETURN MANUAL & RELATED DOCUMENTS IN PROTECTIVE SLEEVE AND GIVE TO THE OWNER / OPERATOR.

Table of Contents

1.	Safety & Cautions	Pages 3 - 4
	• Important Statements • Qualification of Operators and Users • Cautions • Training • Owners / Employer Responsibilities	
2.	Product Information	Pages 4 - 7
	• Description • Specifications • Dimensions • Receiving & Handling • Required Tools • Selecting Site • Foundation & Anchoring Requirements	
3.	Installation Instructions.....	Pages 8 - 13
	• Lift Location • Unpackaging Lift • Column Assembly & Anchoring • Bolster Beam Mounting to Column • Power Unit Mounting / Power Unit Electrical Connection (Standard 115V) • Mounting Platforms to Bolster Beam / Platform 'Angle' Adjustment Tips • Mounting Ramps, Wheel Stop Bars & Latch Cable Bracket	
4.	Starting Up / Testing	Page 14
	• Power Unit & Safety Latch Component (Diagram)	
5.	Operation Instructions	Page 15
	• Vehicle Positioning, Raising & Lowering • Front & Side Platform Loading	
6.	Troubleshooting	Pages 16 - 17
	• Power Unit Priming Procedure	
7.	Preventive Maintenance.....	Page 18
	• Daily / Pre-Operation Check • Weekly Maintenance • Yearly Maintenance	
	Exploded Views.....	Pages 19 - 20
	Parts List.....	Pages 21 - 23
	Limited Warranty Policy.....	Page 24

1. Safety & Cautions

Important Statements:

Please note the max weight capacity noted on the silver ID tag attached to the main post. Do not try to lift any load that exceeds the rated lifting capacity. Please read this manual carefully before installation and use of the lift, to avoid any property loss or personal injury caused by faulty operation. No one is allowed to modify the controls, parts, or other mechanical parts of the machine without the manufacturer's permission.

Qualification of Operators and Users:

- Only personnel who have received professional training are allowed to operate and use the lift.
- Non-professionals shall not approach the lifting area.

Cautions:

- Do not install the lift on asphalt or tar ground. Concrete thickness must meet requirement.
- Please read and understand Safety Cautions carefully before operation of the lift.
- The lift shall not be used outdoors if not customized to meet special water proofing requirements.
- Hands and feet shall be kept away from moving parts of the lift at all times.
- Only personnel who have received professional training are allowed to operate and use the lift.
- Operators should not wear loose clothes to avoid being clamped by any moving part when the machine is descending or rising.
- Area around the lift must be kept clean to help avoid accidents and possible lift malfunctions.
- The lift is designed to lift the entire vehicle, not part of it. Do not try to lift any vehicle beyond the lift's rated lifting capacity.
- Make sure the lift is secured on the safety locks before working on a lifted vehicle.
- Always lift vehicle slightly, checking the vehicle is stable without any risk of tipping or falling, before lifting it to the desired height.
- Check for any missing, broken, or seized parts or components that may contribute to improper wear & tear to lift. Once any anomaly is detected, stop use immediately and contact your dealer.
- Always fully lower lift to the lowest position before driving a vehicle On or Off the lift platforms.
- It is not allowed to modify any part of the lift without the manufacturer's permission.
- If the machine is to stand idle for a long period of time, the operator / user shall:
 - a. Turn off electrical power.
 - b. Drain hydraulic oil from power unit. (Per local codes, dispose of used oil responsibly.)
 - c. Lubricate moving parts with grease.

Training:

- Lift operators must be qualified & trained for safe use and proper operation, as described in Manual.

Owner / Employer Responsibilities:

This is a single post lift installation / operation manual, and no attempt is made or implied herein to instruct the user in lifting methods particular to an individual application. Rather, the contents of this manual are intended as a basis for operation and maintenance of the unit as it stands alone or as it is intended and anticipated to be used in conjunction with other equipment.

Proper application of the equipment described herein is limited to the parameters detailed in the specifications and the usages set forth in the descriptive passages. Any other proposed application of this equipment should be documented and submitted in writing to the factory for examination. The user assumes full responsibility for any equipment damage, personal injury, or alteration of the equipment described in this manual or any subsequent damages.

2. Product Information

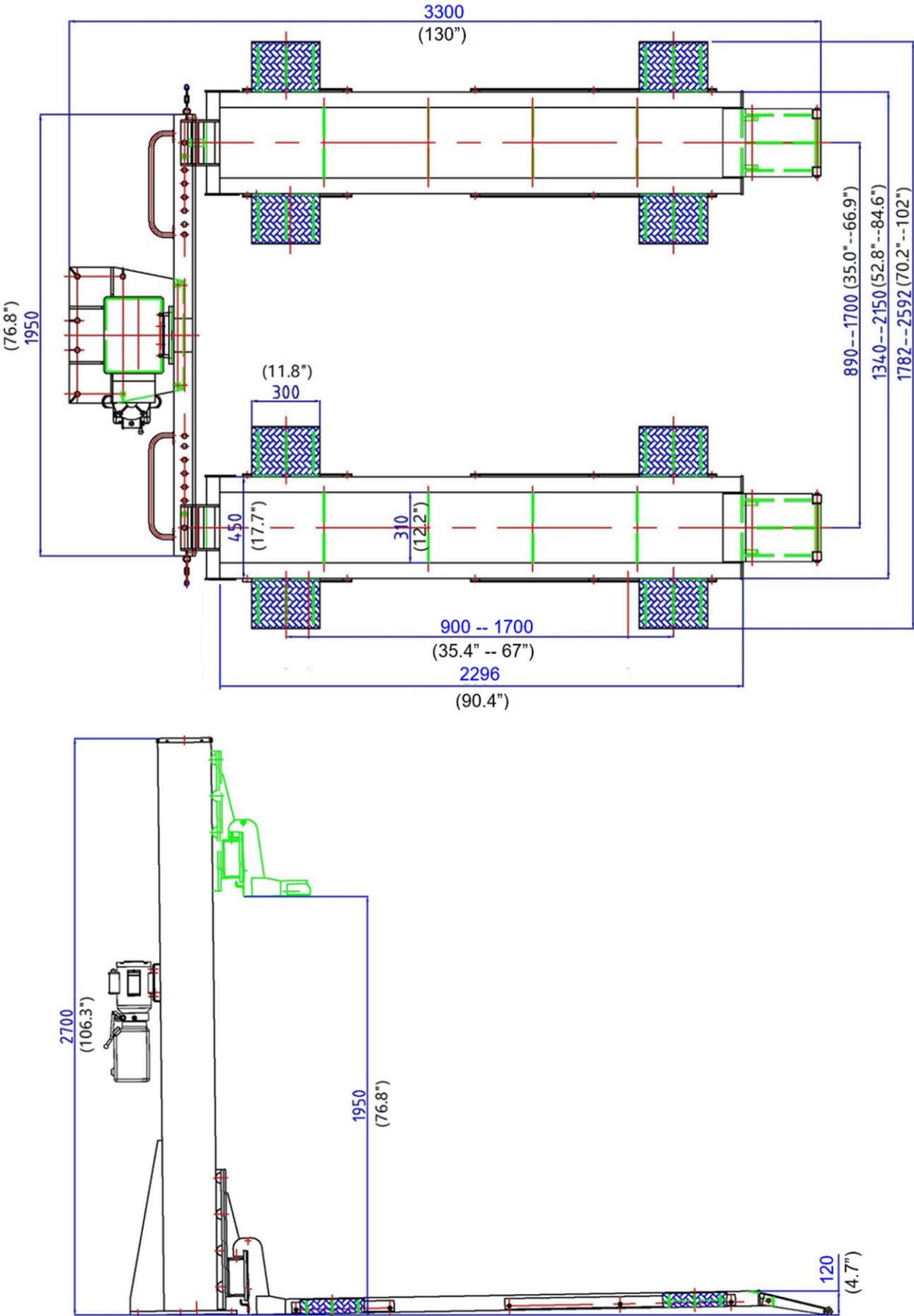
Lift Description: (SC-2K-UTV-X)

This is a 2,000 lb. single column, high-rise 'multi-use' storage & service lift, incorporating 'multi-adjustable' platform design with multi-directional front & side vehicle loading for most ATV's, UTV's, Golf Carts & Riding & Zero Turn Mowers. The low-profile multi-adjustable platforms incorporate spring-loaded 'quick release / locking nylon rollers & brackets mounted to the underside of each platform, making adjusting the platforms width's 'quick & easy'. Each platform is secured to the bolster via HD lock pins & retainer brackets once the desired platform width is set. For additional space saving benefits, the power unit can be easily mounted to either the front, side, or rear of column providing the best fit in a shop or garage! In addition, the Lift comes standard with durable powder-coat finish, 8ea multi-position side ramps, wheel stop 'pivot' ramps with protective nylon rollers, quick removal tubular wheel stop bars for platform sides. Easy lift operation is provided with high-quality electric / hydraulic 115V DURO power unit, HD hydraulic chain-drive cylinder and single point manual lock release with 20 differ locking height positions

Specifications:

Capacity	2,000 lbs.
Width Overall	102"
Height Overall	106.3"
Depth / Length Overall	130"
Max Clearance Under Platforms	76.8"
Platforms Min Height	4.7"
Platforms Max Height	81.3"
Platform Width	17.7"
Platform Runway Width	12.2"
Platform Length	90.4"
Adjustable Platform Widths (OD)	52.8" to 84.6"
Adjustable Side Ramps Widths (CL)	35.4" to 67"
Locking Positions	20ea
Ship Weight	1,624 lbs.
Power	115V - 20 Amp - 1PH

Dimensions:



Receiving & Handling:

Unloading the Lift: You will need a forklift that can handle a minimum of 2,500 pounds and operates on a smooth surface to unload from freight carrier trailer. The lift packaging weighs close to 1,700 pounds, not including any optional accessories that may be included.

Un-banding the Lift: The steel bands which secure the lift packaging are heavy duty. You will need a pair of metal shears or tin snips to cut the steel banding. Be very careful cutting bands, as they will tend to fly apart when cut, along with possible shifting of heavy lift parts when freed from the bands. Stand to the side of bands when cutting, while using gloves & safety glasses.

Moving Lift Components: Recommend moving larger lift components to the garage or service bay with the forklift, dolly and/or engine hoist. Smaller pieces can typically be moved by one or two people.

Required Tools:

- 🕒 Fork Lift (Offload lift package upon delivery & installation assist)
- 🕒 Crow Bar
- 🕒 Metal Shears
- 🕒 Rotary Hammer Drill
- 🕒 19mm (3/4") Masonry Drill Bit
- 🕒 Hammer
- 🕒 #12 Hex Drive Bit
- 🕒 Metric Socket Set & Ratchet
- 🕒 Adjustable Wrench
- 🕒 Medium Flat & Hex Screwdrivers
- 🕒 Snap Ring Pliers
- 🕒 Approx 1.5 Gallons (6 Quarts) of *Hydraulic Oil
- 🕒 Safety Glasses
- 🕒 Gloves

***Recommended Oil:** Non-Detergent / Non-Foaming Hydraulic Oil - SAE-10, AW 32 or Equivalent.

NOTE: Use of ATF is Prohibited, as could damage Power Unit & Void Warranty.

Selecting Site:

NOTE: Before installing your new lift, ensure to check the following:

Overhead Obstructions:

The area where the lift will be located should be free of overhead obstructions such as heaters, building supports, electrical lines, etc.

Floor Requirements:

Visually inspect the site where the lift is to be installed and check for cracked or defective concrete. This lift must be installed on a solid level concrete floor with no more than a 2 degree slope. A level floor is suggested for proper installation and level lifting. If a floor is of questionable slope, consider a survey of the site and/or the possibility of pouring a new level concrete slab. This lift is designed to be installed on a minimum of 4-1/4" thick, 3000psi, with steel reinforced concrete. Do not install this lift on asphalt, wood, or any other surface other than described. This lift is only as strong as the foundation on which it is installed.

Operating Conditions:

The Lift is not intended for outdoor use and has an operating ambient temperature range of 41° - 104°F (5° - 40°C).

DO NOT install this lift outdoors unless special consideration has been made to protect the power unit from weather conditions. **NOTE: The Power unit is not water proof!**

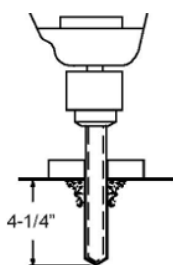
Foundation & Anchoring Requirements:

1. Concrete shall have compression strength of at least 3,000 PSI and a minimum thickness of 4-1/4" in order to achieve a minimum anchor embedment of 3-1/4". **NOTE:** When using the standard supplied 3/4" x 5-1/2" long anchors, if the top of the anchor exceeds 2-1/4" above the floor grade, you **DO NOT** have enough embedment.
2. Maintain a 6" minimum distance from any slab edge or seam. Hole to hole spacing should be a minimum 6-1/2" in any direction. Hole depth should be a minimum of 4-1/4".
3. **DO NOT** install on asphalt or other similar unstable surface. Columns are supported only by anchoring to floor.
4. Using the horseshoe shims provided, shim each column base as required until each column is plumb. If one column has to be elevated to match the plane of the other column, full size base shim plates should be used. Torque anchors to 130 ft.-lbs. Shim thickness **MUST NOT** exceed 1/2" when using the 5-1/2" long anchors provided with the lift.
5. If anchors do not tighten to 130 ft.-lbs. installation torque, replace the concrete pad under pad lift base with a 7'W x 9'L x 6" thick 3,000 PSI minimum concrete pad keyed under and flush with the top of existing floor. Allow concrete to cure before installing lifts and anchors (typically 2 to 3 weeks).

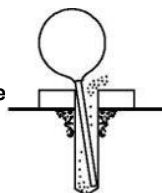
Anchoring Tips

1. Use a concrete hammer drill with a carbide tip, solid drill bit the same diameter as the anchors. Do not use excessively worn bits or bits which have been incorrectly sharpened.
2. Keep the drill in a perpendicular line while drilling.
3. Let the drill do the work. Do not apply excessive pressure. Lift the drill up and down occasionally to remove residue to reduce binding.
4. Drill the hole to depth of 2" deeper than the length of anchor. **NOTE:** Drilling thru concrete (recommended) will allow the anchor to be driven thru the bottom of foundation if the threads are damaged or if the lift will need to be relocated.
5. For better anchoring holding power, blow dust from the hole.
6. Place a flat washer and hex nut over threaded end of anchor, leaving the nut almost flush with the top of the anchor bolt. Carefully tap anchor into hole. Do not damage threads. Tap anchor into the concrete until nut and flat washer are against base plate. Do not use an impact wrench to tighten! Tighten the nut, two or three turns on average after the concrete has cured (28-day cure). If the concrete is very hard only one or two turns may be required.

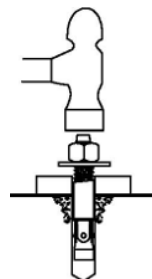
Drill holes using 3/4"
carbide tipped
masonry drill bit per
ANSI standard
B94.12.1977



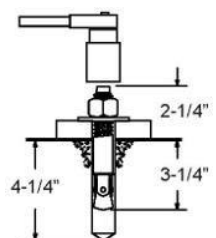
Clean hole



Run nut down just
below impact section
of bolt. Drive anchor
into hole until nut and
washer contacts base.



Tighten nut with
Torque wrench to
130 ft.-lbs.



3. Installation Instructions

WARNING!! Improper installation can cause accelerated wear, resulting in catastrophic failure which may cause property damage and / or bodily 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. Read this installation manual in its entirety before attempting to install or operate the lift.

Step 1: Lift Location

- 1) If available, use architect plan to locate lift in service area or bay. Ensure the area where the lift will be located is free of any overhead obstructions such as heaters, building supports, electrical lines, etc.
- 2) Determine how the lift will be oriented to best fit the service bay or garage by installing the column to the left, right or front of bay for ease to load & unload vehicles from platforms, while also considering loading / unloading from the platform sides. Ensure to leave adequate clearance around the lift's outer perimeter for safety clearances, plus enough distance for safely loading & unloading vehicles.
- 3) Ensure concrete floor is level & meets 'Foundation & Anchoring Requirements' noted on Pages 6 & 7.

Step 2: Unpackaging Lift

- 1) Carefully cut banding from lift & remove power unit from top of packaging and set aside.
- 2) Using a forklift (recommended), carefully remove the bolster beam, platforms & ramps from top of lift package. Place near intended installation area.

CAUTION: Column, Bolster Beam & Platforms are heavy, use caution when lifting & positioning into place.

- 3) Remove hardware box, safety bars and any other loose items from inside column and set aside.
- 4) Using a forklift (recommended), carefully remove bolts from shipping brackets connected to column. Place column near intended installation location, considering location information noted in **Step 1**.
- 5) Check for any missing or damaged items.

Step 3: Column Assembly & Anchoring

- 1) With column in the horizontal position, slightly raise top end section to mount the top cap to top of column, using **M6 x 20mm screws**, **Figs. 1 & 2**.



Fig. 1

Mount Top Cap
w/ 4ea M6 x 20mm
screws



Fig. 2

- 2) With column still in the horizontal position, ensure the lift carriage positioned to base of column. If not, slide carriage to base, while pulling the latch release cable at the same time. This will assist when standing column into position, by lowering the column's center-of-gravity. **Fig. 3.**

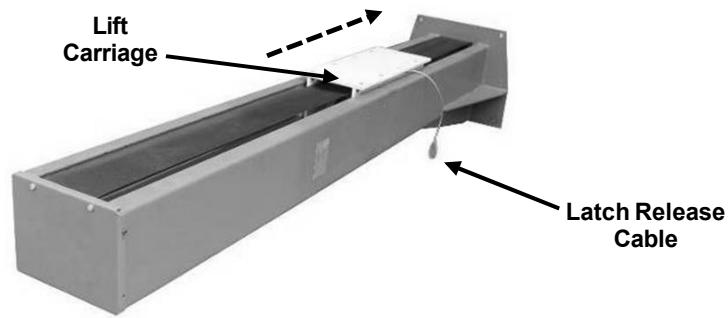


Fig. 3.

- 3) Using a forklift & sling or two to three people, carefully stand the column upright and maneuver to the predetermined location.
- 4) Before proceeding, double check measurements and make certain that the base of the column is properly aligned and in the desired location before anchoring column to floor.
- A. Using the base plate on the column as a guide, drill each anchor hole into concrete using a rotary hammer drill and 3/4" concrete drill-bit. To assure full holding power, do not ream the hole or allow the drill to wobble. **(See Anchoring Details & Tips on Page 7) Fig. 4.**
 - B. After drilling, remove dust thoroughly from each hole using compressed air and/or wire brush.
 - C. Assemble the washers and nuts on anchors then tap into each hole with a block of wood or rubber hammer until the washer rests against the base plate. If shimming is required, ensure that enough threads are left exposed to properly tighten.
 - D. Using a level, check that the column is plumb (sides only). If shimming is required, use supplied Shim stock or 3/4" washers, placing shims as close as possible to the anchor holes locations. This will prevent potential bending for the column base.
 - E. With the shims and anchor bolts in place, tighten by securing the nut to the base then turning 2-3 full turns clockwise. Ensure anchor bolts are tightened to a minimum of 130 ft-lbs. of torque. DO NOT use an impact wrench for this procedure.

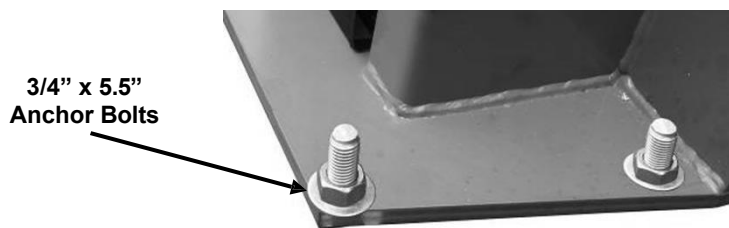


Fig. 4.

Step 4: Bolster Beam Mounting to Column

- 1) Carefully position the **bolster beam** to **lift carriage** using a forklift or dolly. Align bolster beam's mount holes to the lift carriage holes. **First, use the 'shorter' M16 x 30mm socket head bolt, lock washer & flat washer to connect the 'top center' hole position on bolster beam & carriage**, which is required for proper chain clearance. **Fig. 5.** (Next Page)

- 2) For the remaining 6ea mount holes, use the 'longer' **M16 x 40mm socket head bolts, lock washers & flat washers** to finish connecting the bolster beam & carriage together. Ensure all bolts are securely tightened. **Fig. 5.**

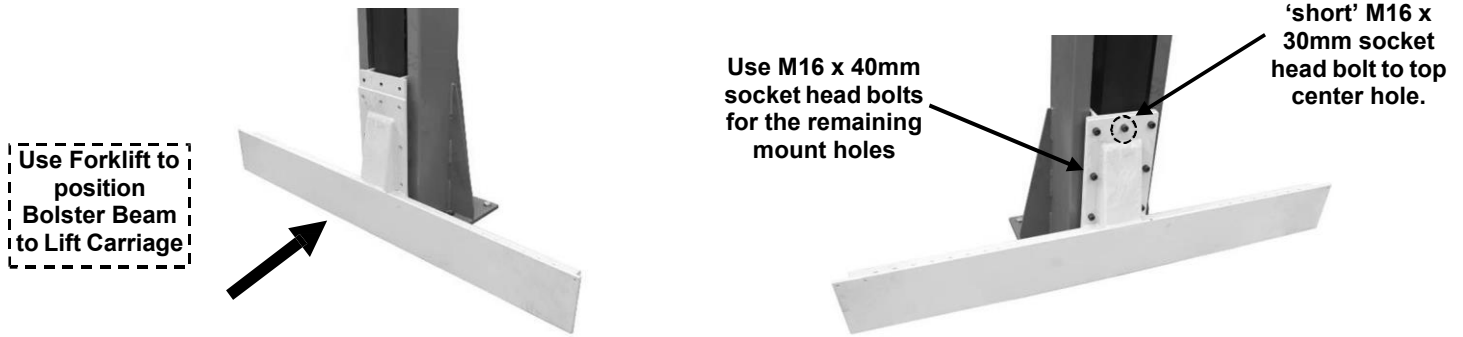


Fig. 5

Step 5: Power Unit Mounting

- 1) Before mounting the power unit, determine which side of column will be the preferred or the best configuration for garage or shop bays, either the - right, left or backside of column. Once determined, first install the **power unit mount bracket** to the preferred column side via the threaded mount holes on the column. Install **bracket**, using **4ea M8 x 25mm hex bolts, lock washers & flat washers**. **Fig. 7.**
- 2) Carefully remove **115V Power Unit** from cardboard box to mount to the specific column side mount bracket. Use **4ea M8 x 25mm hex bolts, washers, and lock nuts** to mount power unit to power unit mount bracket. **Fig 7.**
- 3) Using the **Hydraulic 90° Fitting** from the hardware box, install to the **HP Port** on power unit. **Fig. 8.**
- 4) Locate the **Hydraulic Hose** from the hardware box and connect one end to the **Hydraulic 90° Fitting** installed on power unit. **Fig 8.**
- 5) Connect another end of **Hydraulic Hose** to the **Cylinder Hydraulic Fitting** located on the lower backside of column. **NOTE: Ensure to route Hydraulic Hose through the specific gusset hole that is closest to the selected power unit mounting position.** **Fig. 9**
- 6) Remove Fill Cap / Vent Plug to add **Hydraulic Oil (SAE-10, AW 32)** to **115V Power Unit Reservoir Tank**, Add to Min. Fill line on Drip Stick, approx. **1.5 gallons (6 quarts)** **Fig. 8.** **NOTE: Do Not Use ATF!!**

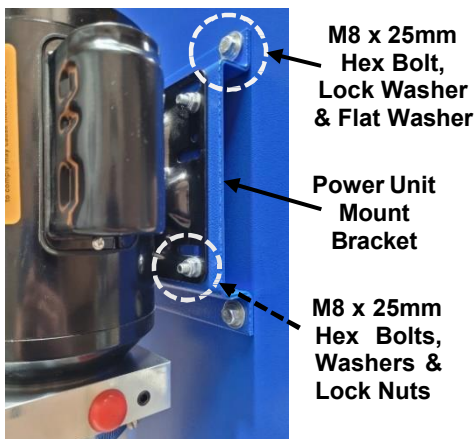


Fig. 7

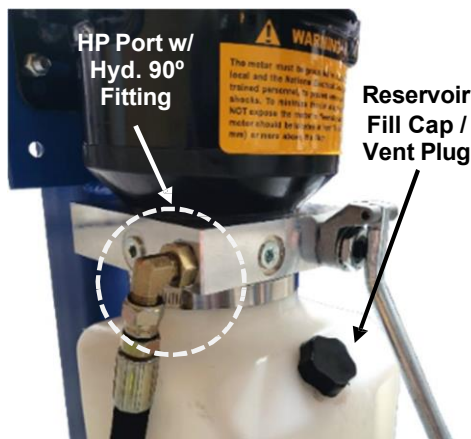


Fig. 8

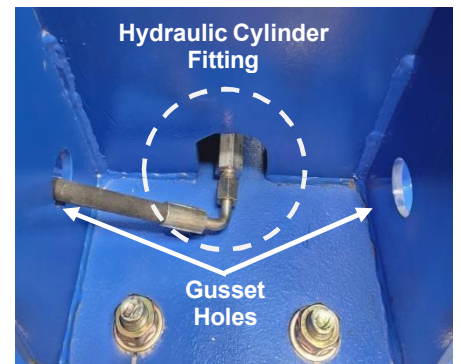


Fig. 9

CAUTION: Only add hydraulic fluid to the reservoir tank when the lift is lowered.

Step 6: Power Unit Electrical Connection (Standard 115V)

WARNING: Electrical Wiring must comply with local code. Use separate circuit for each power unit and protect each circuit with time delay fuse. For 110V-115V single phase, use 20 amp fuse.

- 1) Connect 115VAC electrical power to the Power Unit's three prong electrical plug. Ensure to use proper size extension cord & plug type for 20 Amps. Also ensure power supply incorporates 20 Amp breaker service for safety. If there are any questions on the power source requirements, please consult an electrician. **Fig. 10.**



Fig. 10

Step 7: Mounting Platforms to Bolster Beam

- 1) Select either the **right side or left side platform** to mount onto bolster beam, The platform 'threaded holes' should be mounted to the outside. **Fig. 11.**

NOTE: the 'threaded holes' on the 'outside / center' of each platform determine which 'side' to mount onto the bolster beam.

- 2) Using a forklift, dolly, or pallet jack, position the (right & left) platform to bolster beam's specific side and carefully 'hang' onto the bolster beam, ensuring the 'notch' at the top of the platform's support cradle is fully seated onto bolster beam. **Fig. 12** (The nylon rub block mounted to the backside of the platform support cradle is designed to support loads, while also allowing the ease to adjust platforms.) **Fig. 12.**

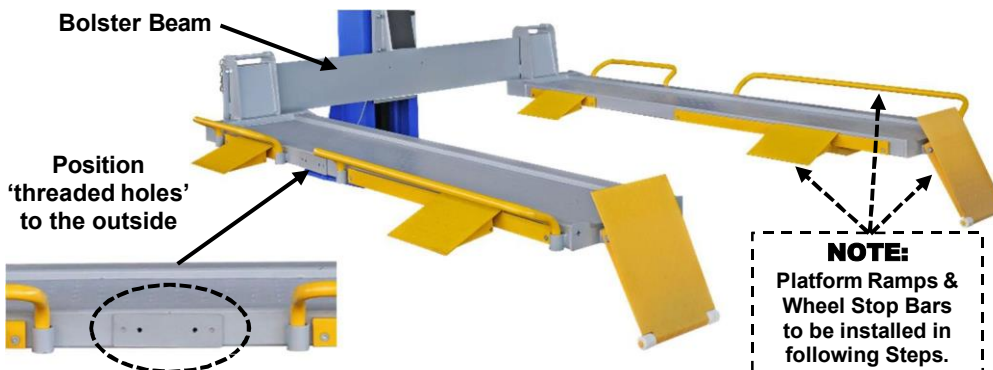


Fig. 11

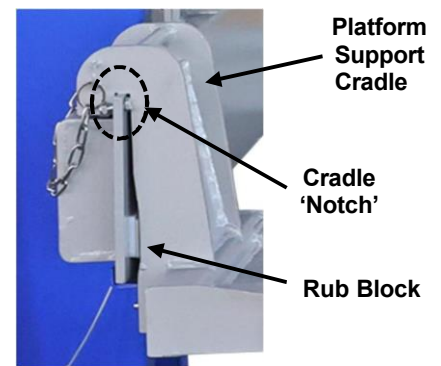


Fig. 12

- 3) Once the platforms are secured onto the bolster beams, install **M10 x 25mm 'stop bolts'** through ends of bolster beam and secure with **M10 nuts**. Secure platform position to bolster using **lock pins**. **Fig. 13.**
- 4) Secure each platform to bolter beam using the **platform retainer bracket**; mount using **M6 x 15mm hex socket bolts**, which maintains platform / bolster beam alignment when fully lowered. **Fig. 13.**

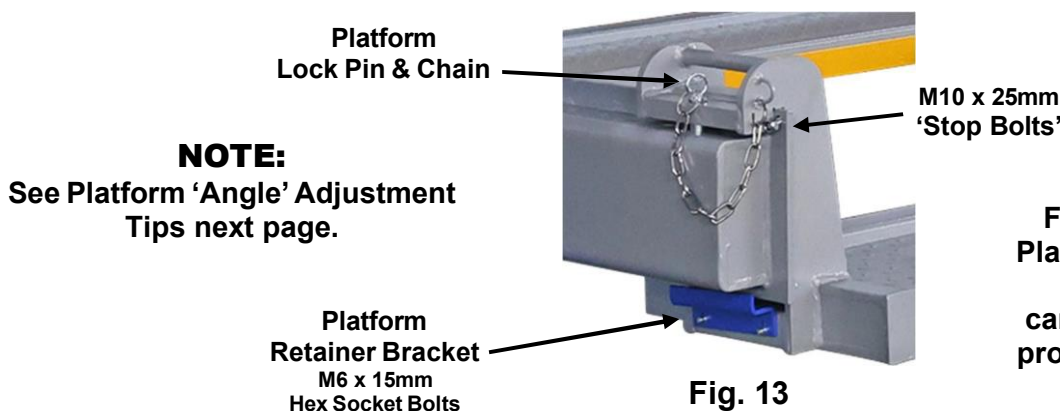


Fig. 13

CAUTION:
Failure to install or apply Platform Stop Bolts, Retainer Brackets & Lock Pins can possibly lead to vehicle, property damage or personal injury.

Step 7-A: Platform 'Angle' Adjustment Tips:

- ❖ The lift come with the ability to **adjust the platform 'deflection' angle**, based on the type & weight of vehicle(s) being lifted for storage and/or service, along with the position of the vehicle on the platforms. To adjust the platforms deflection angle, use one or a combination of the **3ea different thickness of platform shim plates**, included with Lift. **Fig. 14.**

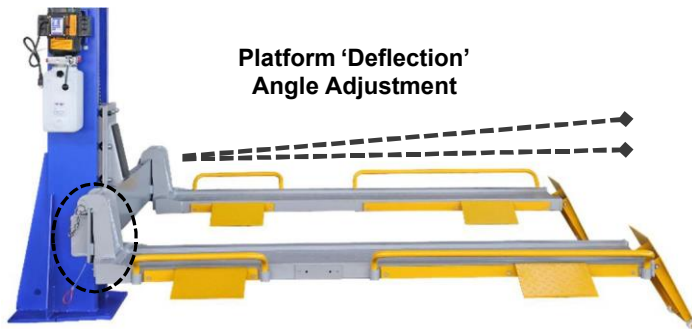


Fig. 14



Platform Shim Plates

- To install the platform shim plates, the backside of the platform must be exposed to access the **nylon 'rub block' board**, **Fig. 15.**
- To access the platform's nylon 'rub block' board, first **raise platforms** and position **all 6ea** of the **retractable nylon wheel dollies** (underside of platforms) to the 'down & locked' position. With the wheel dollies in the 'down & locked' position, then fully lower the lift to the ground. **Fig. 16.**

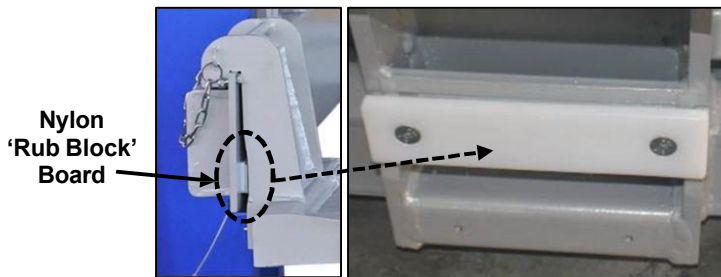


Fig. 15

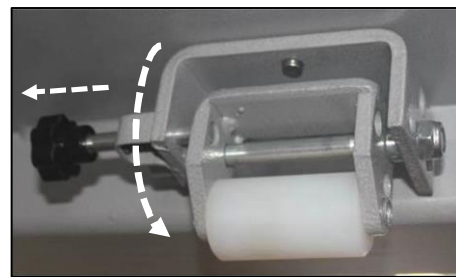


Fig. 16

- With lift fully lowered & wheel dollies locked into down position, *the platforms will automatically rise-up off the bolster beam*; remove the **platform stop bolts** at each end of bolster beam and carefully 'roll' each platform off the end of bolster beam to expose the backside of platform **Fig. 17.**
- Loosen the mount bolts for the **nylon 'rub block' board** to add the preferred platform shim(s) between the platform & 'rub block' board to adjust the platform's deflection angle height. **Fig. 18.**

NOTE: If adding platform shims, add the same number & thickness of shims for each platform. Apply shims with 'bolt notches' facing downwards onto the 'rub block' board's mount bolts.

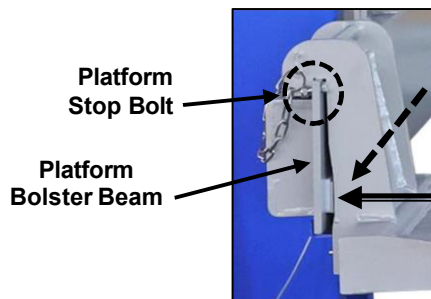


Fig. 17

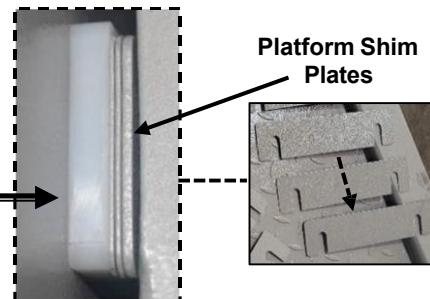


Fig. 18

- Once the platform shims have been installed, ensure the mount bolts are tightened. Repeat above steps B & C in reverse to remount & secure platforms back onto bolster beam or **STEPS 7-2 & 7-3.**

Step 8: Mounting Ramps, Wheel Stop Bars & Latch Cable Bracket

- 1) Mount the 'pivoting' platform **wheel stop ramps** to each end of platforms. Connect to platforms using the pivot pin, apply snap rings at each end of pivot pin to secure to platforms. **Fig. 19.**
- 2) Insert **side ramps** into brackets on each side of platforms, as required. **Fig 19.**
- 3) Insert **wheel stop bars** into bracket tubes on the outside of each platform, as required. **Fig 19.**

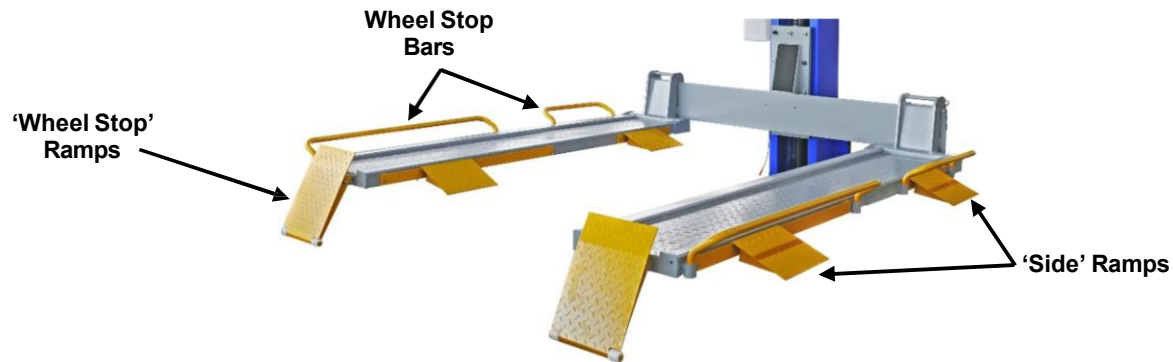
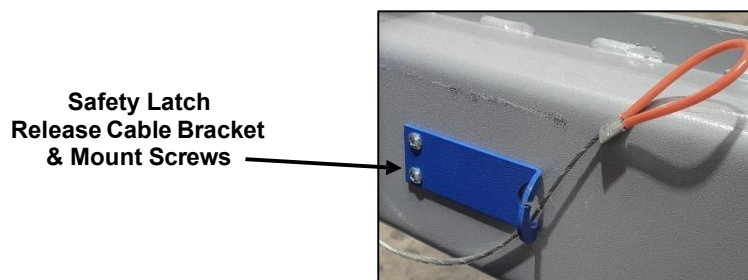


Fig. 19

- 4) Install '**safety latch**' release bracket to backside of bolster beam, using provided hex screws. Route latch cable through hole in bracket, **Fig.20.**



END OF INSTALLATION INSTRUCTIONS

4. Starting Up / Testing

NOTE: Do not place any vehicle on the lift platforms at this time.

To Raise, push the power switch button on the power unit and hold while the electric motor turns on. The motor operates an internal pump that forces hydraulic oil into the lift cylinder, which extends the piston rod & roller chain to raise the lift.

As the lift rises, an internal safety latch will pass over the steel latch stops (rectangular blocks which protrude from the back, inside of the lift column), and you will hear “clanks” as it does so. This sound is normal and indicates that the safety latch is passing over the latch stops properly.

The lift is raised to the desired height by holding the power switch button in while it is rising, and releasing the button when the lift has reached the desired position.

IMPORTANT: For safety, it is required to release the hydraulic pressure inside the cylinder to lower the lift to the nearest lower latch stop. To do this, simply press down the release handle on the power unit. The lift will rest on the latch stop inside column.

WARNING: If the Safety Latch Mechanism does not properly engage into the locked position, fully lower lift, and have a qualified service technician immediately repair it.

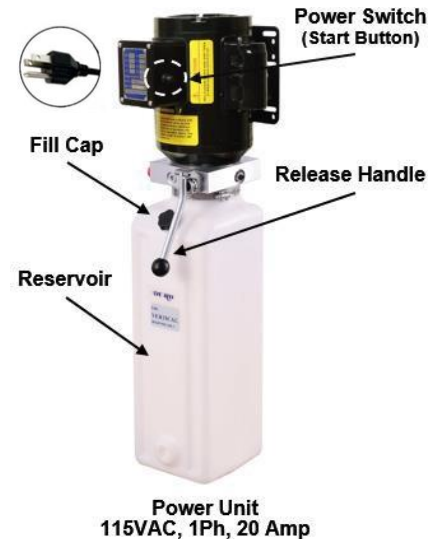
To Lower, first you need to depress the power switch button a second or two to raise the lift up a little. Then, pull the safety latch release cable to disengage the safety latch to fully lower. After that, press down the release handle again and hold.

NOTE: Once the Safety Latch locks into one of the safety catches, you must slightly raise the lift first to disengage the safety latch to release the safety latch to lower the lift.

The weight of the vehicle will cause the lift to lower by gravity. No power is required to be applied to the power unit while lowering, but the safety latch must be disengaged to allow the lift to lower past the latch stops.

After start-up testing is completed, cycle the lift fully Up & Down 2 to 3 times to ensure all air is removed from the hydraulic system.

IMPORTANT: Cycle lift Up & Down in intervals at 2 mins apart, to NOT overheat the power unit.



THE LIFT IS NOW READY FOR OPERATION

5. Operation Instructions

Vehicle Positioning, Raising & Lowering

VEHICLE POSITIONING:

- ❖ **Determine which loading direction** the vehicle will be for **Front or Side loading**.
- ❖ For **Front Loading**, adjust the Platform's width to match the center of vehicle's wheels to the center of each platform.
- ❖ For **Side Loading**, determine the approach side and adjust the Platform's width to match the center of vehicle's wheels. Remove the wheel stop bars, while adjusting the side ramps to the vehicle's wheels, prior to loading vehicle onto platforms.
- ❖ Carefully **drive vehicle onto 'adjusted' platforms**, keeping the vehicle parallel with the platforms or bolster beam, based on the selected loading direction.



Front Loading



Side Loading

CAUTION: Before driving a vehicle onto the lift, ensure the lift is fully lowered and platforms are properly adjusted to match vehicle wheels.

NOTE: Refer to Page 15 for Power Unit & Safety Latch component details.

RAISE LIFT:

- A. After loading vehicle onto platforms, double-check that the platforms are properly adjusted to vehicle wheels and platform lock pins are applied to holes on the backside on bolster beam to secure platforms in position.
- B. After loading vehicle onto platforms, turn off the vehicle's engine and engage the parking brake.
- C. If required, reinstall wheel stop bars, after loading vehicle onto platforms.
- D. Raise vehicle to desired working height, followed by pressing the release handle on power unit to relieve hydraulic pressure, allowing the lift's safety latch to securely engage into the safety latch brackets, securing the raised vehicle.

NOTE: Be careful when raising vehicle so not to make contact with ceiling or any other overhead obstructions that may damage vehicle or garage or building during lift operation.

LOWER LIFT:

NOTE: It is normal for an unloaded lift to lower slowly, during first lift operations.

1. Be sure any obstructions are removed from under or around lift.
2. First, raise the lift slightly to release pressure off safety latch, then pull the safety latch release cable to disengage the safety latch.
3. Press the release handle on the power unit to lower lift.

CAUTION: Before removing vehicle from lift, ensure to remove wheel stop bars and adjust side ramps, if required.

6. Troubleshooting

Common lift issues may be encountered over time. Please see probable causes & possible solutions covered in the paragraphs below. If the troubleshooting guide does not provide assistance to resolve the lift issue(s), please contact the distributor / manufacturer for help. We will help you solve the problem as soon as possible.

Motor Does Not Operate:

1. Breaker or fuse blown..... (Contact Electrician)
2. Faulty wiring connections (Contact Electrician)
3. Defective start / up button..... (Contact Electrician)

WARNING!! Failure to properly relieve pressure in the following steps can cause injury to personnel.

Motor Functions but Lift Will Not Rise:

1. Power Unit is not priming correctly (See Power Unit Prime Procedure on next page.)
2. A piece of trash is under release 'down' valve (Push lowering handle down, while pushing the start / up button at the same time. Hold for 10-15 seconds. This should flush debris from release valve.)
3. Motor spins backwards..... (Carefully remove the check valve cover and clean check ball, spring & seat.)
4. Oil level too low....(Oil level should be at the MAX fill line located on the reservoir tank when lift is fully lowered.) **NOTE: Ensure to fully lower lift to relieve all hydraulic pressure before adding oil.**

Oil Blows out Breather of Power Unit:

1. Oil reservoir tank overfilled...(Relieve all pressure and siphon out hydraulic fluid until at a proper level.)
2. Lift lowered too quickly while under a heavy load....(Lower the lift slowly under heavy loads.)

Motor Hums and Will Not Run:

1. Lift overloaded..... (Remove excessive weight from lift.)

WARNING!! The voltages used in the lift can cause death or injury. In the following steps, make sure that a qualified electrician is used to perform maintenance.

2. Faulty wiring..... (Contact Electrician)
3. Bad capacitor (Contact Electrician)
4. Low voltage.....(Contact Electrician)

Lift Jerks Going Up and Down:

1. If the lift jerks while going up and down, it is usually a sign of air in the hydraulic system (Raise lift all the way to top and return to floor. Repeat 4-6 times, ensuring not overheat power unit.)

Oil Leaks:

1. Power Unit: If the power unit leaks hydraulic oil around the tank-mount flange, check the oil level in the tank..... (The level should be two inches below the flange of the tank when the lift is fully lowered.)
2. Cylinder / Piston Rod: The rod seal of the cylinder is defective (Rebuild or replace the cylinder.)
3. Cylinder / Vent: The piston seal of the cylinder is defective..... (Rebuild or replace the cylinder.)

Lift makes Excessive Noise / Vibrates:

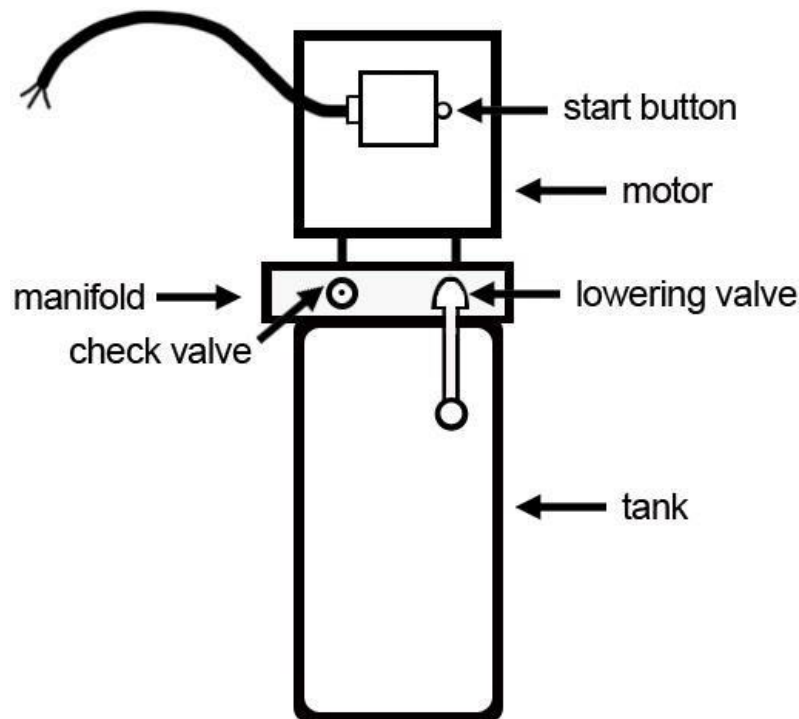
1. Carriage rub blocks may need lubricated or worn (Inspect, grease column, or replace as needed.)
2. Excessive wear on shafts & pins. (Inspect and replace, as required.)
3. Cylinder too tight (Load lift at half capacity, then cycle lift 'up & down' a few times to break in seals.)

Power Unit Priming Procedure

THE PROBLEM: Power unit runs fine but will not pump any fluid.

WARNING!! Failure to properly relieve hydraulic pressure in the following steps can cause injury to personnel.

Step 1 – Locate the check valve, the flush plug to the left of the lowering valve.



Step 2 – Using an Allen wrench and shop towel – with shop towel in place to catch fluid – loosen the check valve plug 2-½ turns to allow it to leak.

Step 3 – Push the START button for one second, then release for three seconds. Repeat these steps until unit starts pumping fluid.

Step 4 – Tighten the check valve plug.

THE POWER UNIT SHOULD NOW BE PRIMED & READY TO GO!

7. Preventive Maintenance

The periodic Preventive Maintenance Schedule provided is the suggested minimum requirements at minimum intervals for Daily, Weekly & Yearly periods or accumulated hours, whichever comes sooner.

Periodic maintenance is to be performed on a Daily, Weekly, and Yearly basis as given in the following paragraphs.

NOTE: Do not modify the lift in any manner without the prior written consent of the manufacturer.

WARNING!! 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 and working properly before the lift is put into use.

WARNING!! If you hear a noise not associated with normal lift operation or if there is any indications of impending lift failure **CEASE OPERATION IMMEDIATELY!** Inspect, correct and/or replace parts as required. Failure to heed this warning can result in death or serious injury, or damage to equipment.

Daily Pre-Operation Check: (Every 8-Hours)

- ⌚ Check platforms are properly mounted & secured to lift bolster beam.
- ⌚ Check safety latch audibly and visually while in operation.
- ⌚ Check safety latch for free movement and full engagement with latch rack.
- ⌚ Check lifting chain and cylinder for any defects or leakages
- ⌚ Check hydraulic connections, and hoses for leakages.
- ⌚ Check snap rings for all rollers and sheaves.
- ⌚ Check bolts, nuts, and screws and tighten if needed.
- ⌚ Check wiring & switch for any damages or malfunctions.
- ⌚ Check floor for stress cracks near post / column.
- ⌚ Check for proper lubrication for rollers and shafts.

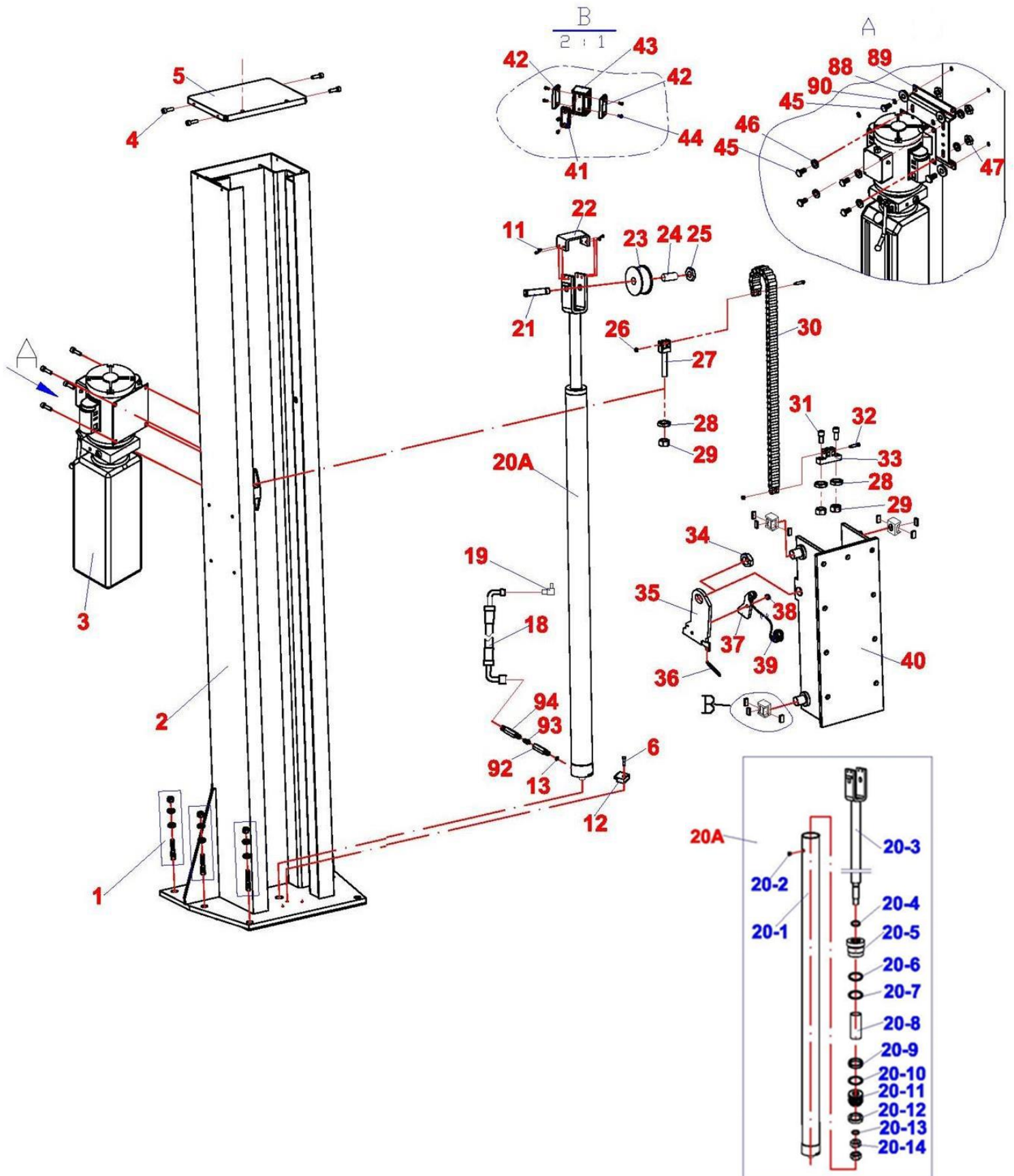
Weekly Maintenance: (Every 40-Hours)

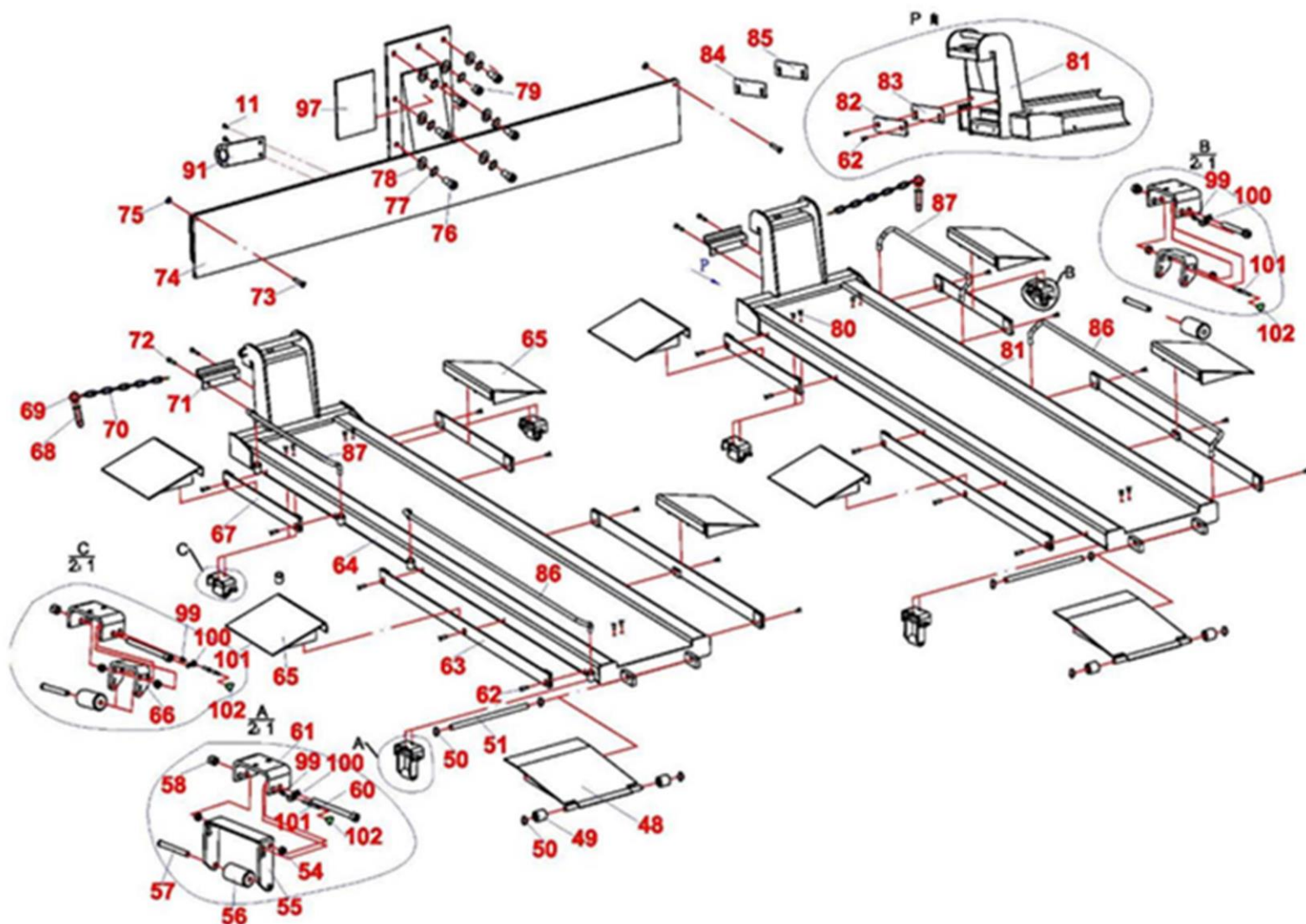
- ⌚ Check anchor bolts torque to 130 ft-lbs. for the 3/4 in. anchor bolts. Do not use an impact wrench to tighten anchor bolts.
- ⌚ Check floor for stress cracks near columns.
- ⌚ Check hydraulic oil level.
- ⌚ Check and tighten bolts, nuts, and screws.

Yearly Maintenance: (Annually)

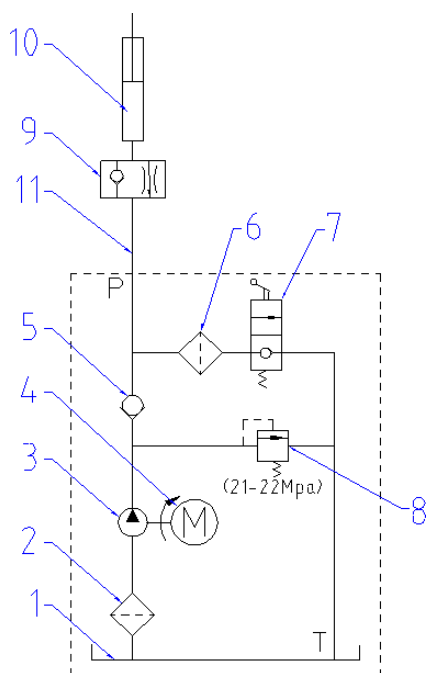
- ⌚ Lubricate the chain, rollers, and shafts at least once a year, after the lift is in service.
- ⌚ Check for excessive wear of lifting chain, platforms, safety latch mechanism, platform roller assemblies, protective rubber pad & lock pins. Replace, if necessary.
- ⌚ Change the hydraulic fluid, but if operating in dusty environment a shorter interval may be required.
- ⌚ Replace all Caution, Warning, or Safety related decals on lift, if unable to read or missing. Reorder, if necessary.

Exploded Views





(Hydraulic Schematic)



1. Reservoir Tank	7. Release Valve (Manual)
2. Steel Mesh Filter	8. Overload Relief Valve
3. Gear Pump	9. Restrictor Valve
4. Motor	10. Hydraulic Cylinder
5. Check Valve	11. Oil Suction Tube
6. Screen Mesh (Release Valve)	