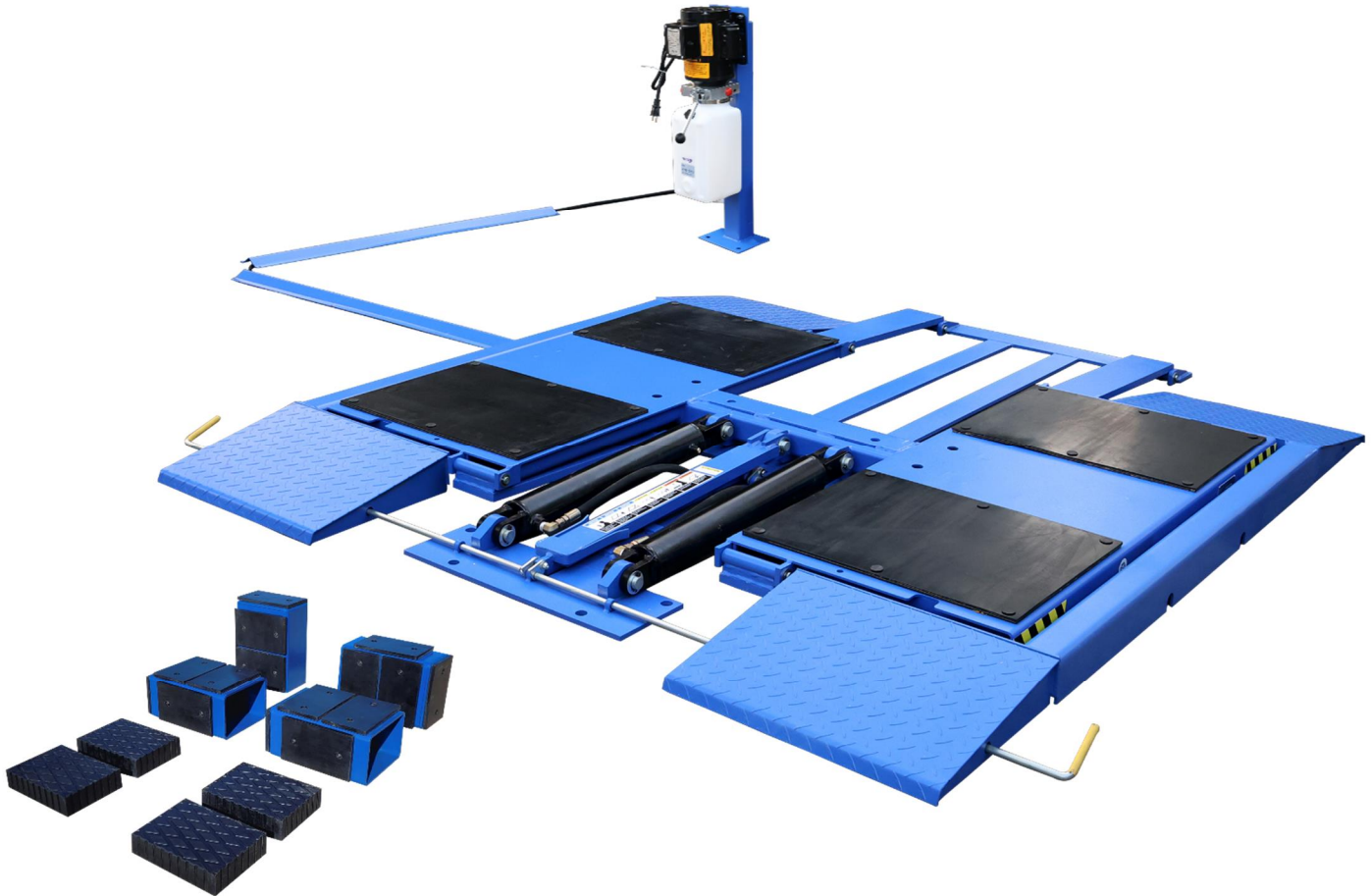


LR-10K-TLPAD

Low-Rise, Commercial Pad Lift

10,000 LBS Capacity (4500 Kg)



INSTALLATION & OPERATION MANUAL

IMPORTANT!!

READ THIS MANUAL THOROUGHLY BEFORE INSTALLING, OPERATING, OR MAINTAINING THIS LIFT. WHEN DONE WITH INSTALLATION BE SURE TO RETURN DOCUMENTS TO PACKAGE AND GIVE ALL MATERIALS TO THE LIFT 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 & Requirements	Pages 4 - 7
• Lift Description	
• Lift Specifications	
• Lift Layout	
• Receiving & Handling	
• Required Tools	
• Selecting Site / Overhead Obstructions / Floor Requirements / Operating Conditions	
• Foundation & Anchoring Requirements / Anchoring Tips	
3. Installation Instructions	Pages 8 - 14
• Lift Location	
• Unpackaging Lift	
• Anchoring Lift (A)	
• Power Unit & Stand Mounting	
• Power Unit Electrical Connection (Std.115V) / Power Unit Electrical Connection & Hyd. Fluid (Opt. 220V)	
• Anchoring Lift (B)	
• Outer Ramp Bases Positioning	
• Latch Release Handles Assembly	
• Outer Ramp Bases Anchoring	
• Hose Guard Covers Anchoring	
4. Starting Up / Testing	Page 15
5. Operation Instructions	Page 16
• Vehicle Positioning, Lifting & Lowering	
• Raising & Lowering Lift	
6. Troubleshooting	Page 17
• Power Unit Priming Procedure	
7. Preventive Maintenance	Page 18
• Daily Pre-Operation Check	
• Weekly Maintenance: (Every 40-Hours)	
• Yearly Maintenance: (Annually)	
Exploded View	Page 19
Parts List	Page 20
Limited Warranty Policy	Page 21

1. Safety & Cautions

Important Statements:

Please do 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.
- Optional 220V power unit's electrical connection must be performed by a qualified electrician.
- 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.
- Lifting blocks and/or rubber pads must be positioned at the vehicle's pickup points, noted by the OEM. 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.
- 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 & operation of lift as described in Manual.

Owner / Employer Responsibilities:

This is a vehicle pad 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:

The iDEAL LR-10K-TLPAD is a 10,000 lb. low rise, high-performance commercial, vehicle frame contact lift designed for Cars, SUVs, Vans & Trucks. The LR-10K-TLPAD Pad Lift includes the latest in design & safety features including, twin hydraulic cylinders, three locking height positions with dual latch releases, durable rubber contact pads, protective hose covers and outer drive-over fixed platform frame allowing for wheel service repairs for a wider range of vehicles, including uni-body vehicles using the included multi-height adapters and rubber pads. The versatility of the pad lift design allows vehicles to be driven-on the pad lift in either direction, while also having the ability to position the hose & power unit to either side of the pad lift, allowing for the best fit in a shop or garage. Easy lift operation is provided with high quality electric / hydraulic 115V DURO power unit, mounted to a pedestal post combined with dual point manual lock release. Optional 220V DURO power unit is also available for faster speed of rise.

Lift Specifications:

Lift Model	LR-10K-TLPAD
Capacity	10,000 lbs.
Overall Length	91"
Overall Width	88-5/8"
Max Rise Height	22-1/2"
Min Lift Height	4-1/4"
Max Lift Height w/ Tall Adapter	30-3/4"
Platform Pad Length	51-1/4"
Platform Pad Width	24"
Platforms Outer Width	70-3/4+
Platforms Forward Movement	15+
Platforms Locking Heights	13.5+, 17.25+, 21.5+
Lift Speed 115V / 220V	60S / 36S
Power	115V / 220V - 20 Amp - 1PH
Ship Weight	1,262 lbs.

Lift Layout:

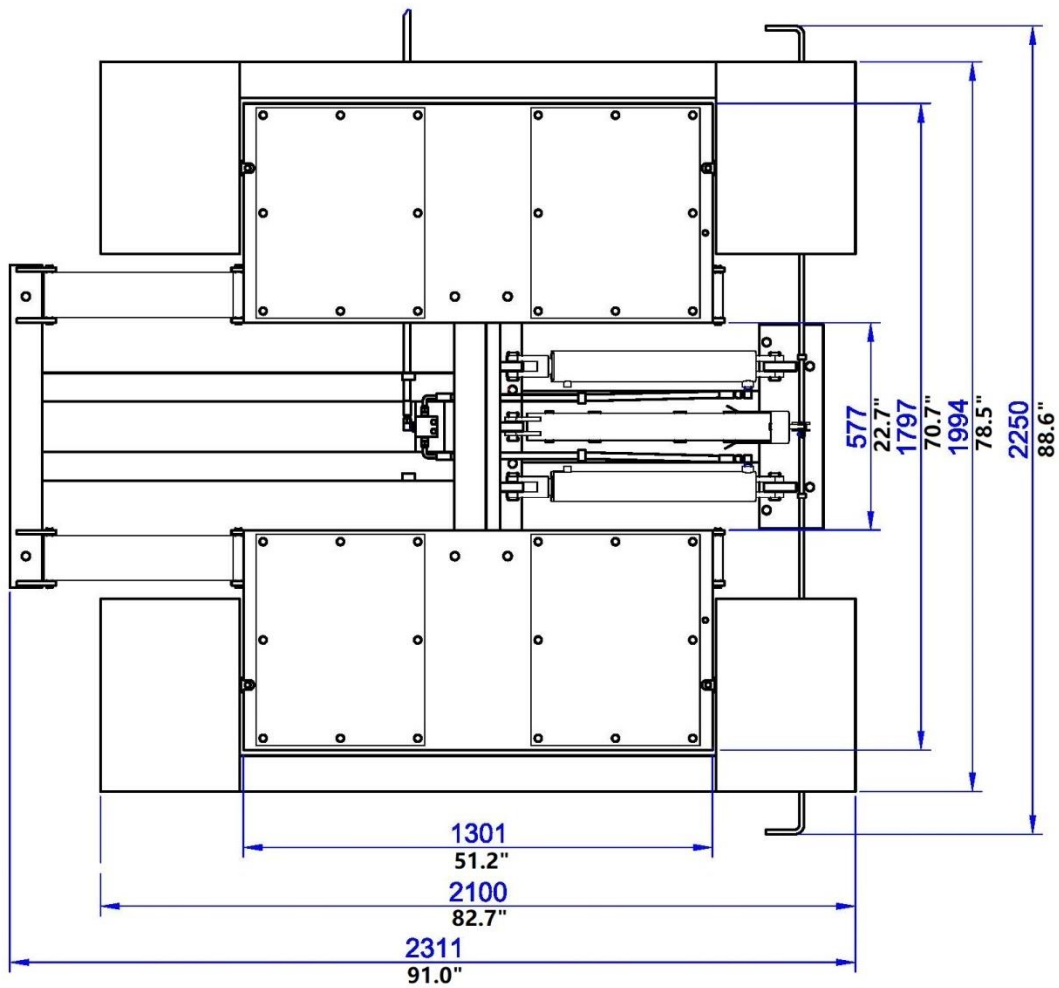
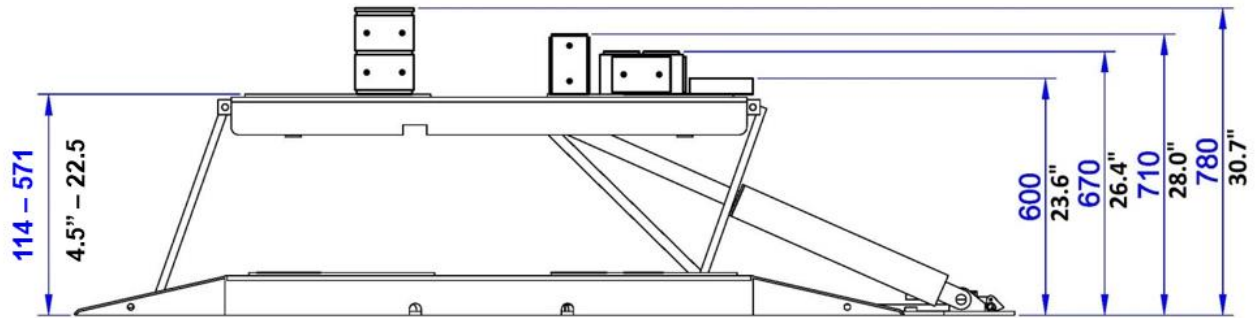


Fig. 1

Receiving & Handling:

Unloading the Lift: You will need a forklift that can handle a minimum of 2,000 pounds and operates on a smooth surface to unload from freight carrier trailer. The pad lift crate packaging weighs close to 1,300 pounds, not including any optional accessories that may be included.

Un-banding the Lift: The steel bands which secure the crate 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 crated lift package upon delivery & installation assist)
- Crow Bar
- Metal Shears
- Rotary Hammer Drill
- 19mm (3/4") Masonry Drill Bit
- 12mm (1/2") Masonry Drill Bit
- 6mm (1/4") Masonry Drill Bit
- Hammer
- Metric Socket Set & Ratchet
- Adjustable Wrench
- Medium Flat & Hex Screwdrivers
- Pliers
- Approx 1.5 Gallons (6 Quarts) of *Hydraulic Oil / 3 Gallons (12 Quarts) for Optional 220V Power Unit
- 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 2 degrees of 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.

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!**

DO NOT install lift close to wall and/or obstruction. It is necessary to leave adequate clearance around the lift's outer perimeter for safety. Suggested clearance to be 3 ft. (1 meter) minimally. (See Page 8, Fig 2)

Operating Conditions:

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

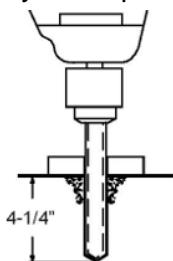
Foundation & Anchoring Requirements:

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 7x9 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).

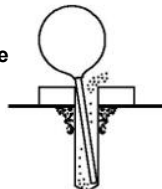
Anchoring Tips

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.

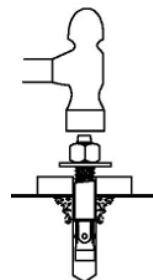
Drill holes using 3/4" carbide tipped masonry drill bit per ANSI standard B94.12.1977



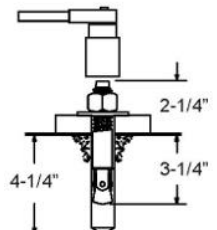
Clean hole



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.

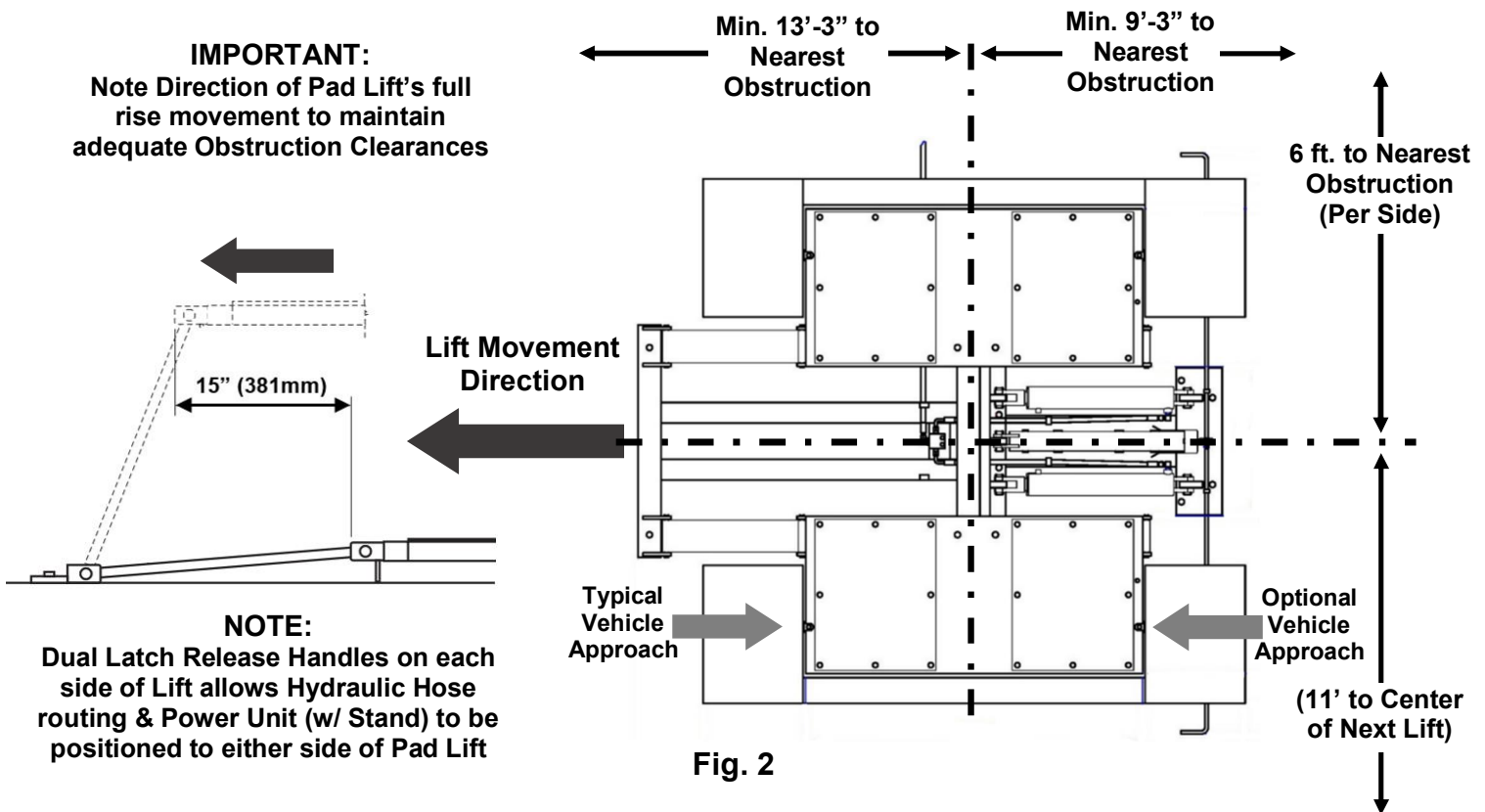
Step 1: Lift Location

NOTE: The Pad Lift can be installed with the cylinder’s anchored ends pointing towards the front (typical) or rear of service bay. Be cautious of the differences in lift clearance requirements according to installation option chosen.

- 1) If available, use architect plan to locate pad lift in service area or bay.
- 2) Determine which end of the lift will be the approach end, along with ensuring to leave adequate clearance around the lift’s outer perimeter for safety clearance, as shown in Fig. 2. Ensure concrete floor is level & meets Foundation & Anchoring Requirements on Page 7.

NOTE: It is necessary to leave adequate clearance around the lift’s outer perimeter for safety.

IMPORTANT: At full rise, the pad lift positioning of vehicle is increased by 15" (381mm).



- 3) Once a location & lift configuration is determined, mark locations with chalk line where lift will be positioned in bay. **Fig. 2.** Ensure to determine drive-on approach direction, along with centering lift to bay door.

Step 2: Unpackaging Lift

- 1) Carefully cut banding & remove power unit from top of crate packaging and set aside.
- 2) Open wooden crate with crowbar & hammer, and carefully remove pedestal stand, hose covers & outer frames, hardware box and height adapters.
- 3) Place Pad Lift and removed items near intended installation location, using information noted in **Step 1**. Check for any missing items.

Step 3: Anchoring Lift (A)

IMPORTANT: Refer to 'FOUNDATION and ANCHORING REQUIREMENTS' noted on (Page 7).

- 1) Before proceeding, double check lift location measurements & clearances, noted in **Selecting Site** and in **Step 1**, for **Pad Lift Location**.
- 2) Using the pad lift base structure holes as a guide, drill holes for the **8ea (A) 3/4"** anchor bolt hole locations first, using a rotary hammer drill and 19mm (3/4") Masonry Drill Bit. **Fig. 3**.

NOTE: For the other **2ea (B) 3/4"** anchor bolt hole locations, the Pad Lift must be in the raised position, detailed in following Steps.

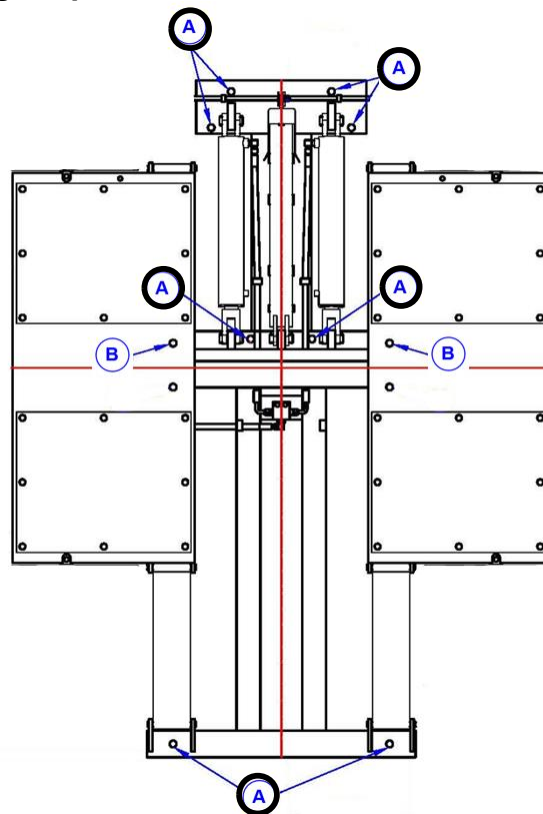


Fig. 3

- 3) Assemble washer & hex nut to ends of anchor bolts, then tap anchors into drilled hole with a hammer until the washer & hex nut contact the pad lift's base. Apply anchor shims as required, to ensure lift level.
- 4) With the shims & anchor bolts in place, tighten by securing the nut to the base then turning 2-3 full turns clockwise, as detailed in **Page 7**, for **FOUNDATION and ANCHORING REQUIREMENTS**.

Step 4: Power Unit & Stand Mounting

- 1) Refer to architect's plan for best placement of power unit & stand mounting. Position the power unit stand to the desired position, ensuring to be out of the vehicle path, while also allowing for proper clearances in garage or shop bay.
- 2) Using the stand base structure holes as a guide, drill holes for the **4ea 1/2" (M12)** anchor bolt hole locations first, using a rotary hammer drill and 12mm (1/2") masonry drill bit. **Fig. 4.**
- 3) Assemble **1/2" (M12) washer & hex nut** to ends of anchor bolts, then tap anchors into drilled hole with a hammer until the washer & hex nut contact the pad lift's base. Apply anchor shims, as required.
- 4) With the shims & anchor bolts in place, tighten by securing the nut to the base then turning 2-3 full turns clockwise, as detailed in **Page 7, for FOUNDATION and ANCHORING REQUIREMENTS.**
- 5) Carefully remove 115V Power Unit from cardboard box to mount to the anchored Stand. Use **5/16"-18 x 1-1/4" hex bolts, hex nuts, and lock nuts** to mount power unit to stand's mount plate. **Fig 5.**



115V Power Unit & Stand

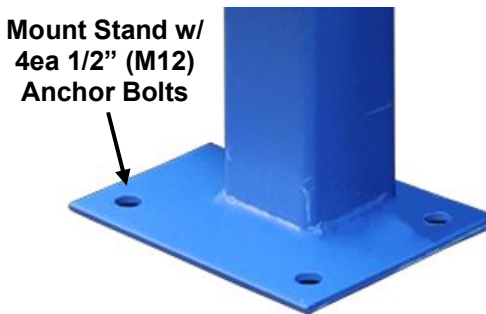


Fig. 4

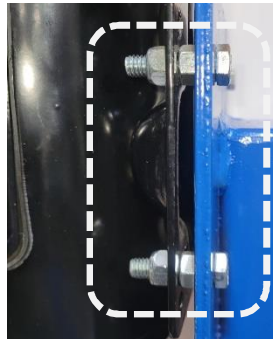


Fig. 5

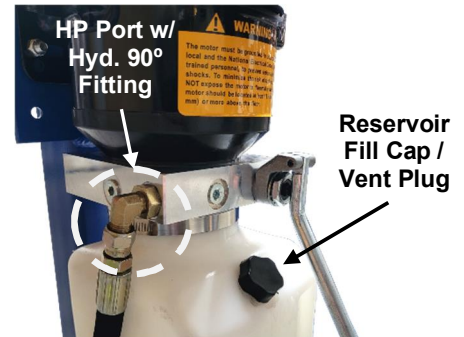


Fig. 6

- 6) Using the **Hydraulic 90° Fitting** from the hardware box, install to the **HP Port** on power unit. **Fig. 6.**
- 7) Locate the **Long Hydraulic Hose** from the hardware box and connect one end to the **Hydraulic 90° Fitting** installed on power unit. **Fig 6.**
- 8) Connect another end of **Long Hydraulic Hose** to hydraulic **90° Fitting & T-Block** located in the center of the pad lift base. **Ensure to orient 90° Fitting & route Hose to the desired side of lift.** **Fig. 7.**

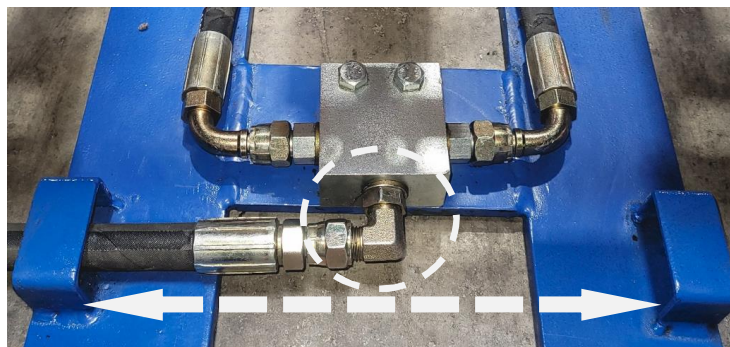


Fig. 7

- 9) 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. 6. NOTE: Do Not Use ATF!!**

CAUTION: Only add hydraulic fluid to the reservoir with the lift in the fully “down” position. If you fill the reservoir in the “up” position and then lower the lift, there will be too much hydraulic oil in the system and will leak out of the reservoir tank.

Step 5: 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.

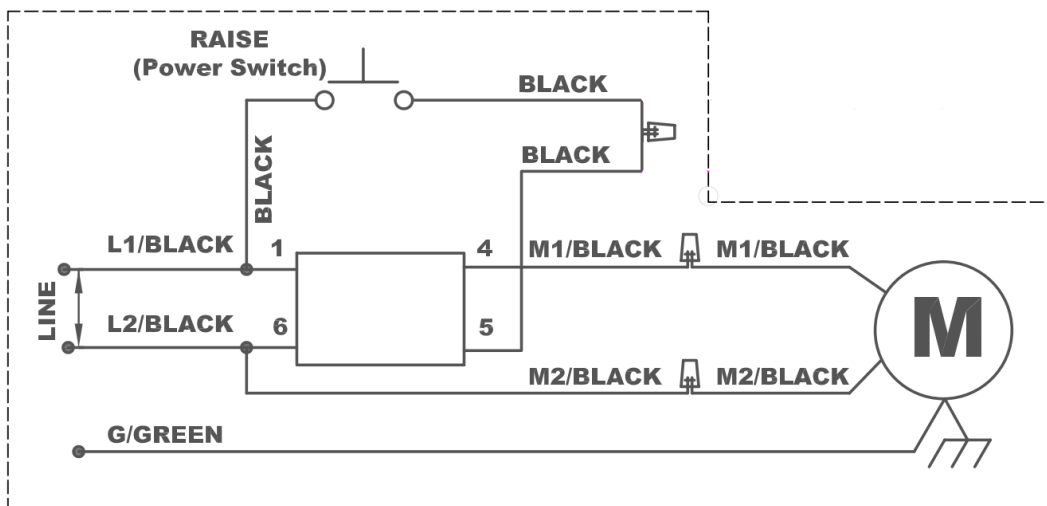
- 1) Connect 115VAC electrical power to the Power Unit's three prong electrical plug. Ensure to use proper size extension cord and plug type for 20 Amps. Also ensure power supply incorporates 20 Amp breaker service for safety. If there are any questions on the power source requirements, please consult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

Power Unit Electrical Connection & Hyd. Fluid (Optional 220V)

WARNING: Electrical Wiring must comply with local code. Use separate circuit for each power unit and protect each circuit with time delay fuse. For 208V-230V single phase, use 20 amp fuse.

- 1) Have a Certified Electrician make the electrical connection from power supply to the power unit. Use separate circuit for each power unit.

208 - 230VAC, 1PH, 60Hz



220V Power Unit & Stand

NOTE: The 220V power unit has a larger reservoir and does not include an electrical plug.

CAUTION: Never operate the Power Unit in-line voltage less than 208VAC, as motor damage may occur. Never operate Power Unit with no hydraulic oil, as pump damage may occur.

Adding Hydraulic Fluid for Optional 220V Power Unit

- 2) Remove Fill Cap / Vent Plug to add Hydraulic Oil (SAE-10, AW 32) to 220V Power Unit Reservoir Tank, Add to Min. fill line on Drip Stick, approx. 3 gallons (12 quarts), Fig. 6. **NOTE: Do Not Use ATF!!**

Step 6: Anchoring Lift (B)

- 1) To install the remaining 3/4+ anchor bolts (B) to finish securing the pad lift base structure to concrete surface, the pad lift will need to be raised. Plug in 115V power unit and push the start button on side of switch box to raise the pad lift platform. Raise lift to max height.
- 2) With the pad lift in the raised position, now install the remaining **2ea 3/4" (19mm)** anchor bolts to secure the pad lift base structure. Use the base holes as a guide, and drill holes for the **2ea (B)** anchor bolt hole locations, using a rotary hammer drill and 19mm (3/4+) Masonry Drill Bit. **Fig. 8.**

**Complete
Pad Lift Base
Anchoring (B) using
2ea 3/4" (19mm)
Anchor Bolts**

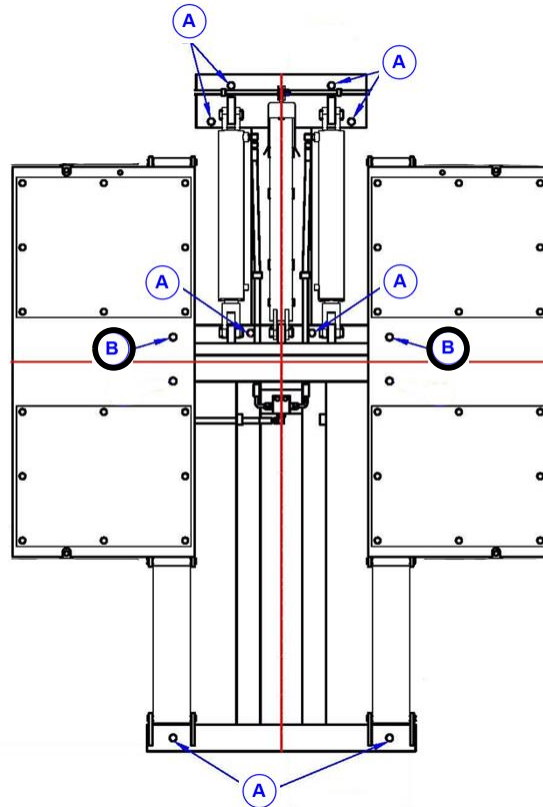


Fig. 8

- 3) Assemble washer & hex nut to ends of anchor bolts, then tap anchors into drilled hole with a hammer until the washer & hex nut contact the pad lift base.
- 4) With the shims & anchor bolts in place, tighten by securing the nut to the base then turning 2-3 full turns clockwise, as detailed in **Page 7**, for **FOUNDATION and ANCHORING REQUIREMENTS.**

Step 7: Outer Ramp Bases Positioning

- 1) Carefully position the **outer side ramp bases** around the parameter of pad lift, making sure there is approx. 1/2+space between outer ramp bases and pad lift base per each side. **Fig. 9**

**NOTE:
DO NOT DRILL
ANCHOR HOLES
FOR RAMP BASES
AT THIS TIME!**

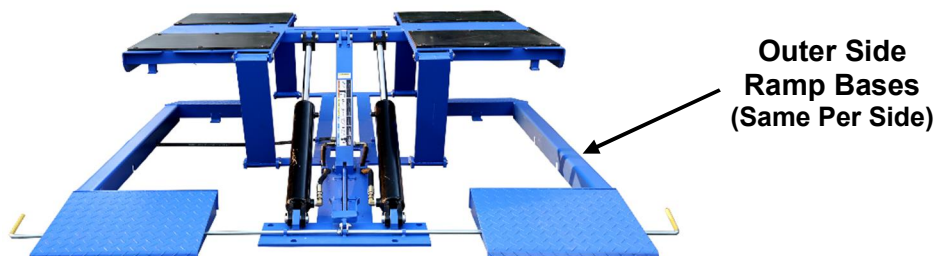


Fig. 9

Step 8: Latch Release Handles Assembly

- 1) Insert the left & right side **latch release bars / handles** through each side of pad lift outer ramp bases and through the ring guide weldments to engage the center safety latch mechanism. **Fig. 10**
- 2) Once latch bar center ends are positioned & keyed together, use M6 x 16mm screw to secure them together. **Fig. 10**.

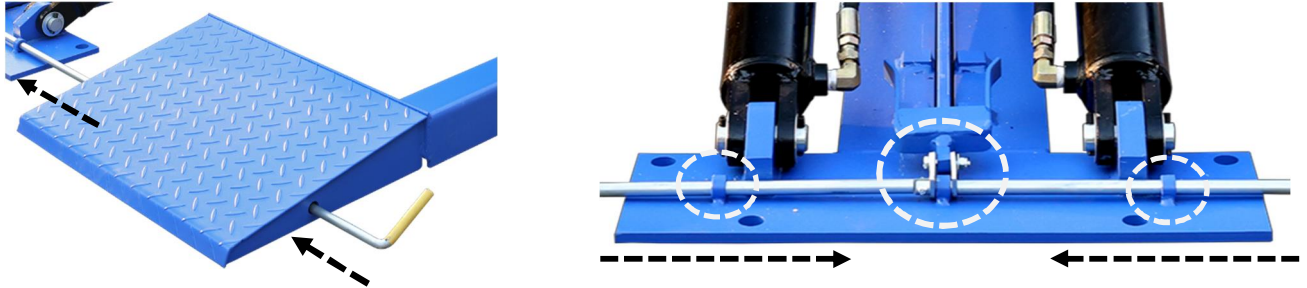


Fig. 10

- 3) Position (rotate) latch release handles to an upward position to ensure the latch cams holds the safety latch bar in the elevated position, allowing for proper latch bar clearance to lower the pad lift.

Step 9: Outer Ramp Bases Anchoring

- 1) The outer ramp bases should be positioned with approx. 1/2" gap clearances around the pad lift platforms for both front, back & sides. **Fig. 11**
- 2) Before drilling 1/2"(M12) anchor bolt holes to secure outer ramps bases, raise & lower the pad lift through one cycle to ensure there is adequate 1/2" clearance between the ramps and the pad lift. **Fig. 11**.

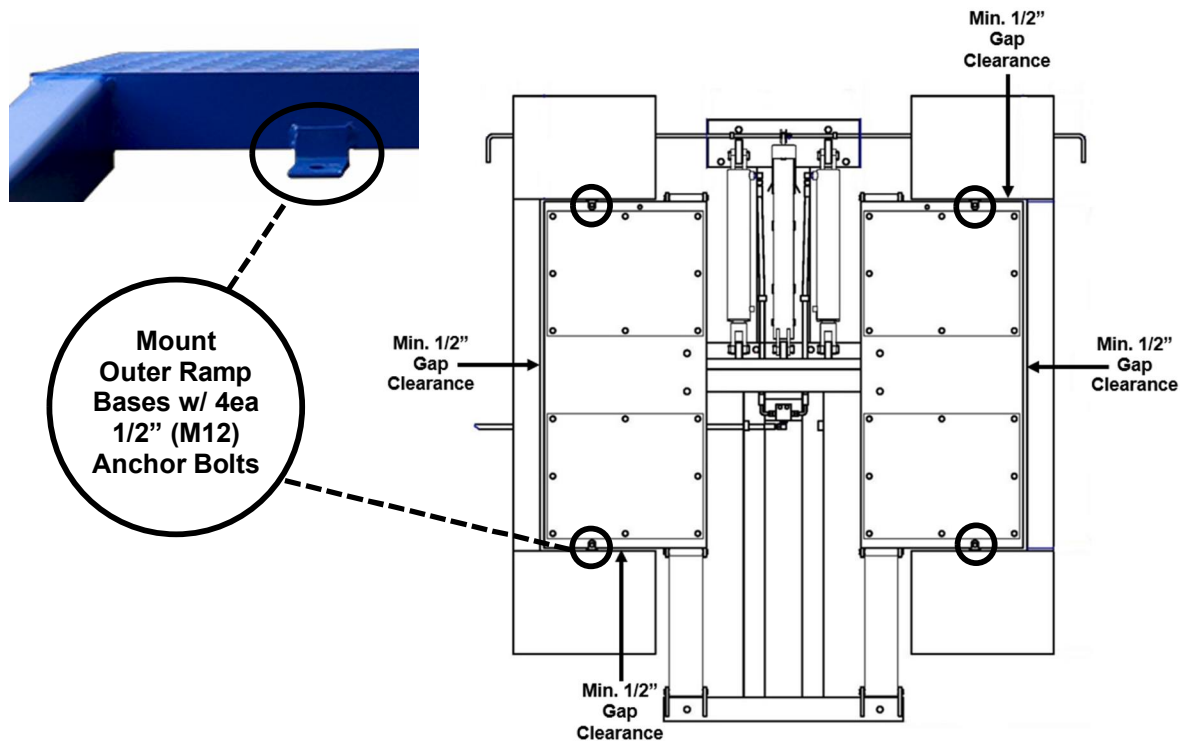


Fig. 11

- 3) Once the outer ramp bases are properly positioned around pad lift, raise pad lift to allow clearance to drill holes & install **4ea 1/2" (M12)** anchor bolts, as noted in **Step 4 (Page 10)** numbers **2, 3 & 4**.

Step 10: Hose Guard Covers Anchoring

- 1) Position hose guard covers over the hydraulic hose that is routed from the side of the pad lift to power unit to prevent damages to hose when driven over and/or to prevent tripping over hose hazard.
- 2) Using the hose guards holes at each corner as a guide, drill holes for the **4ea 1/4" x 2" (M6)** anchor bolt hole locations first, using a rotary hammer drill and 6mm (1/4") masonry drill bit.
- 3) Assemble **1/4" (M6) washer & hex nut** to ends of anchor bolts, then tap anchors into drilled hole with a hammer until the washer & hex nut contact the hose covers base.
- 4) With anchor bolts in place, tighten by securing the nut to the base then turning 2-3 full turns clockwise, as detailed in **Page 7**, for **FOUNDATION and ANCHORING REQUIREMENTS**.

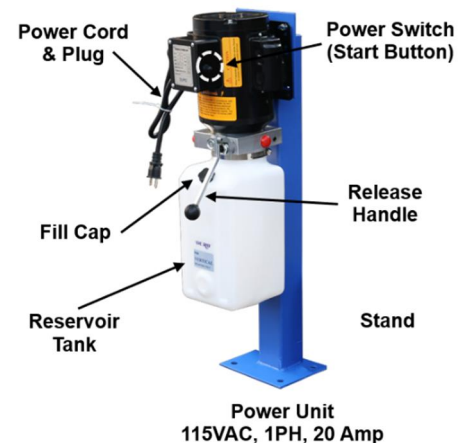


4. Starting Up / Testing

- Do not place any vehicle on the lift at this time.
- To raise the pad lift, press the start button on the power unit.
- To lower the lift, first turn the Safety Latch Bar Handles to upright vertical position, followed by pressing the release handle on the power unit to lower the lift.

WARNING: Never operate the Lift if the Safety Latch Mechanism is not working properly.

1. Plug the Power Cord of the power unit into a properly grounded, 3-hole, electrical receptacle, or extension cord.
2. Rotate (up & down) the Safety Latch Bar Handle(s) several times and while doing so, observe that the Safety Latch Assembly operates properly in response to the handle rotation. When the pad lift is in rising, the Safety Latch Release Handles must be in the down position.
3. Press and hold the Power Unit Switch and observe that the Safety Latch Lock Bar drops over & into the safety catches as the pad lift rises.



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

4. Once the pad lift is fully raised, release pressure on the Power Unit's Release Handle and observe that the Lift slightly lowers to engage the next lowest lock position.

CAUTION: 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.

5. Should the Safety Latch Assembly not operate as described in Step 4, slightly raise the lift to take pressure off the safety catch. Then, with the Safety Latch Bar Handles rotated up, fully lower the lift to the floor.

NOTE: As standard pad lift operation, the operator must BOTH Rotate the Safety Latch Bar Handles to the Up Position, followed by Pressing Down the Release Handle to lower the Lift.

IMPORTANT: Cycle the lift fully Up & Down several times to ensure all air is removed from the hydraulic system. Apply in intervals at 2 mins apart to NOT overheat the power unit.

THE LIFT IS NOW READY FOR USE

5. OPERATION INSTRUCTIONS

Vehicle Positioning, Lifting & Lowering

CAUTION: Before driving a vehicle onto the lift, make sure that the pad lift is fully lowered.

- Carefully drive vehicle over the ramps and platform while keeping the vehicle parallel with the lift, along with aligning the (COG) center of gravity of the vehicle with the center of the pad lift.

NOTE: The “Center Of Gravity” (COG) of the vehicle is the balance point at which there is equal vehicle weight placement for both ‘front to back’ and ‘side to side’. The COG is not necessarily the dimensional center of the vehicle but is often slightly towards the engine from the dimensional center of the vehicle.

- Turn off the vehicle's engine and engage the parking brake.
- Read the vehicle owner's manual to identify the recommended vehicle lifting points.

RAISE LIFT:

1. Read operating and safety manuals before using lift.
2. Always lift vehicle according to the manufacturers recommended lifting points
3. Drive vehicle over the ramp and platform, then position vehicle over platform pads.
4. Insert the rubber blocks between the vehicle and platform.

NOTE: There are two kinds of height adaptor rubber blocks. One type is 1.5” thick rubber pads & the other type being a ‘steel framed’ multi-position height adaptor 8.6” x 6” x 4.3” with rubber pad surfaces. (Fig. 12.)

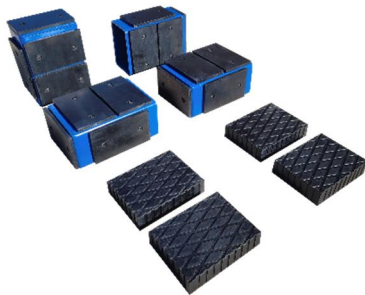


Fig 12



Fig. 13

5. Raise the lift by pressing the start button on power unit until adaptors contact the underside of the vehicle. Recheck to make sure vehicle is secure and height adaptors are properly positioned to the vehicle's lifting points. (Fig. 12)
6. Raise vehicle to desired working height (Fig. 13), followed by pressing the release handle on power unit to relieve hydraulic pressure, allowing the lift's safety lock bar to securely engage into the safety latch, securing the raised vehicle.

LOWER LIFT:

NOTE: It is normal for an unloaded lift to lower slowly. It may be necessary to add weight.

1. Be sure tool trays, stands or personnel are removed from under or around lift.
2. First, raise lift slightly then rotate / turn the safety lock release handles up vertically.
3. Press the release handle on the power unit to lower the lift.

CAUTION: Before removing vehicle from lift, remove rubber pads / blocks.

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:

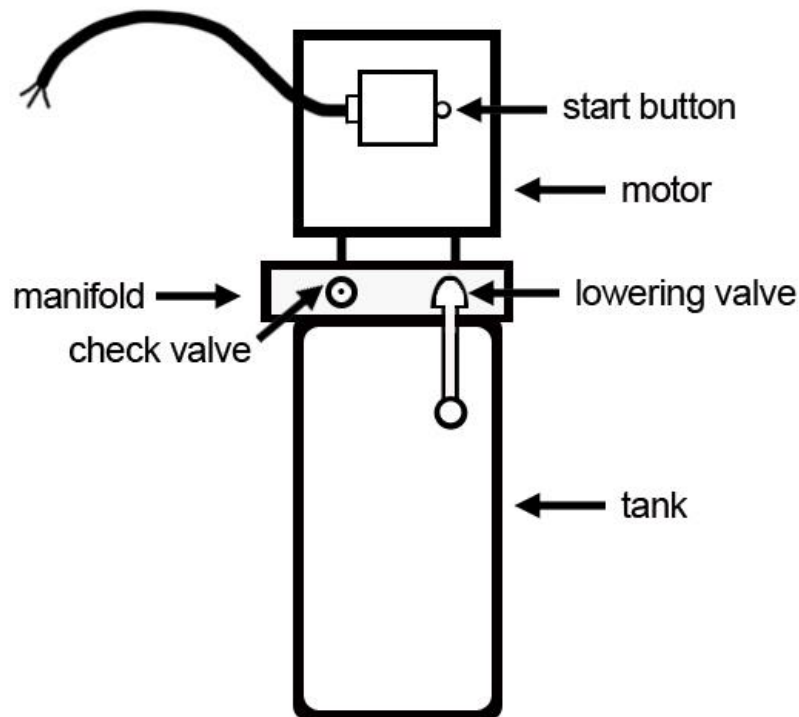
1. Scissors or lifting brackets may be deformed or bent (Inspect & replace as required.)
2. Excessive wear on shafts & pins (Inspect and replace, as required.)
3. Cylinder too tight (Load lift at half capacity, then cycle lift up & down a few times to break in seals.)

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 pad 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 safety latches audibly and visually while in operation.
- Check safety latches for free movement and full engagement with latch rack.
- Check hydraulic connections, and hoses for leakages.
- Check snap rings at all rollers and sheaves.
- Check bolts, nuts, and screws and tighten if needed.
- Check wiring & switches for any damages.
- Check floor for stress cracks near posts / columns.
- Check for proper lubrication for rollers and shafts.

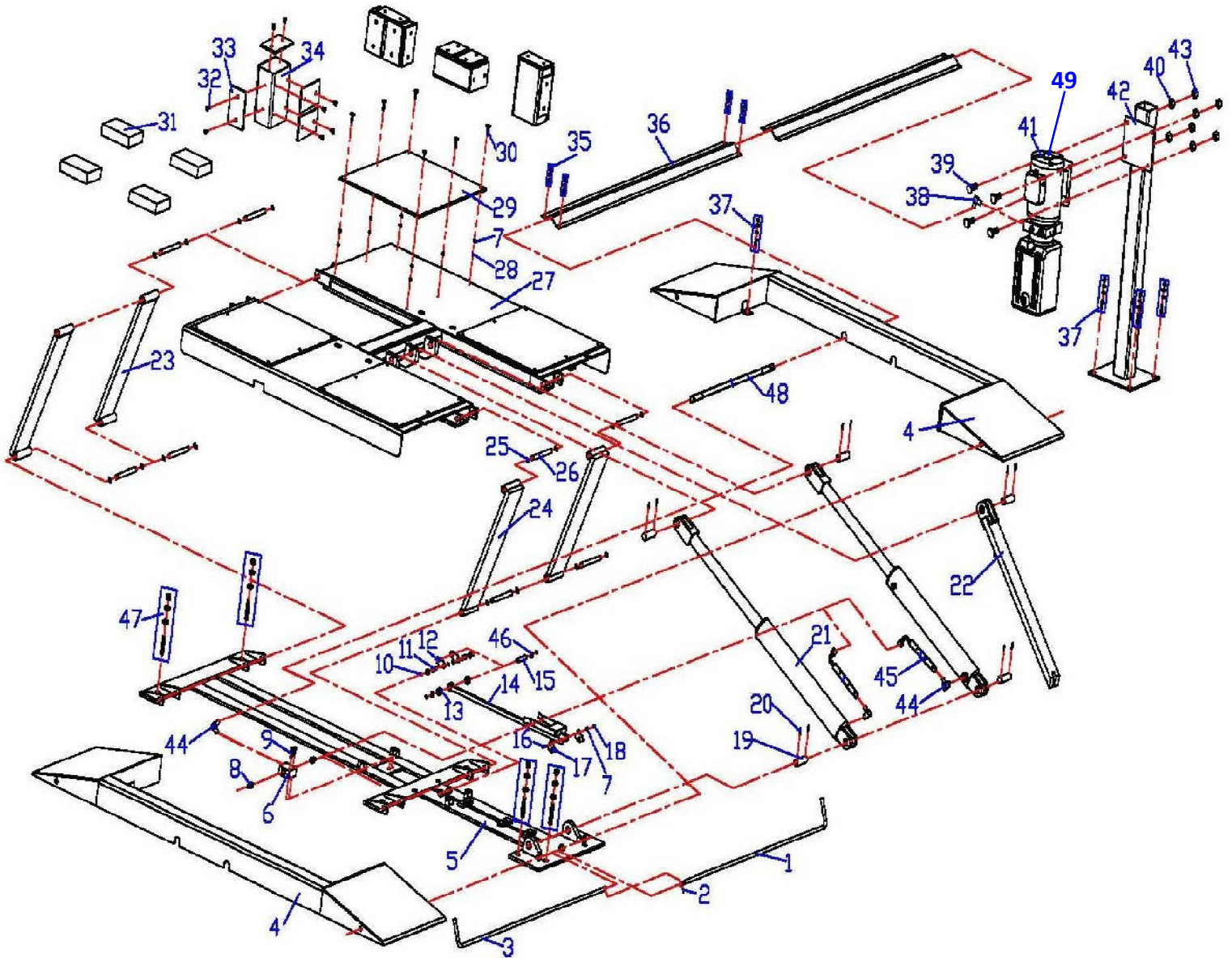
Weekly Maintenance: (Every 40-Hours)

- 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 rollers and shafts at least once a year, after the lift is in service.
- Check for excessive wear of lifting platforms, safety latch mechanism, rubber contact & height adaptor pads. Replace, if necessary.
- Change the hydraulic fluid, but if operating in dusty environment a shorter interval may be required.

Exploded View



Parts List

ITEM	TUX P/N	M-REF P/N	DESCRIPTION	QTY.
1	LR10K-TLPAD-001	JP30-00052-A00	Right, Latch Release Bar	1
2	LR10K-TLPAD-002	5107-06016-000	Screw, M6 x 16mm	1
3	LR10K-TLPAD-003	JP30-00051-A00	Left, Latch Release Bar	1
4	LR10K-TLPAD-004	JP30-04000-A00	Outer Frame / Ramp Base	2
5	LR10K-TLPAD-005	JP30-01000-A00	Bottom Frame Base	1
6	LR10K-TLPAD-006	PMR-6106	Hydraulic T-Block	1
7	LR10K-TLPAD-007	40782	Large, Flat Washer, D6	26
8	LR10K-TLPAD-008	JP30-05023-A00	Straight, Hose Fitting	2
9	LR10K-TLPAD-009	5105-08030-000	Screw, M8 x 30mm	2
10	LR10K-TLPAD-010	1010117	Circlip, 1/2"	6
11	LR10K-TLPAD-011	TL-8008	Pin	2
12	LR10K-TLPAD-012	TL-8007	Release Plate B	2
13	LR10K-TLPAD-013	1010532	Spacer	2
14	LR10K-TLPAD-014	1010527	Short Bar	1
15	LR10K-TLPAD-015	TL-8004	Lock Pin	1
16	LR10K-TLPAD-016	40081	Bolt	1
17	LR10K-TLPAD-017	1010531	Release Plate A	2
18	LR10K-TLPAD-018	40642	Lock Nut	1
19	LR10K-TLPAD-019	TL-8001	Cylinder Pin	5
20	LR10K-TLPAD-020	991060	Cotter Pin	10
21	LR10K-TLPAD-021	YG42-9100	Hydraulic Cylinder	2
22	LR10K-TLPAD-022	1010526	Lock Bar	1
23	LR10K-TLPAD-023	TL-3100	Rear Platform Leg	2
24	LR10K-TLPAD-024	TL-3000	Front Platform Leg	2
25	LR10K-TLPAD-025	1010118	Circlip	16
26	LR10K-TLPAD-026	TL-8002	Leg Pin	8
27	LR10K-TLPAD-027	JP30-02000-A00	LR10K Platform	1
28	LR10K-TLPAD-028	40625	Nut	24
29	LR10K-TLPAD-029	TL-8003	Platform Rubber Pad, 23+W x 17+L	4
30	LR10K-TLPAD-030	991243	Screw	24
31	LR10K-TLPAD-031	FJ2427	Rectangle Rubber Block, 1.5+H	4
32	LR10K-TLPAD-032	5118-06020-000	Screw, M6 x 20mm	32
33	LR10K-TLPAD-033	TL-7001	Height Adapter, Rubber Pad	16
34	LR10K-TLPAD-034	TL-7100	Metal Height Adapter	4
35	LR10K-TLPAD-035	JP30-00012-A00	Anchor Bolt 1/4+x 2+(M6 x 50mm)	8
36	LR10K-TLPAD-036	JP30-05025-A00	Hose Guard Cover, 55+L	2
37	LR10K-TLPAD-037	JP30-00013-A00	Anchor Bolt 1/2+x 4+(M12 x 100mm)	8
38	LR10K-TLPAD-038	30400-9053YZ	Hydraulic 90° Fitting	1
39	LR10K-TLPAD-039	991751	Bolt, 5/16-18 x 1-1/4+	4
40	LR10K-TLPAD-040	JP30-00014-000	Hex Nut, 5/16+	4
41	LR10K-TLPAD-041	MBZ07	Nut	1
42	LR10K-TLPAD-042	TL-6100	Power Unit Stand	1
43	LR10K-TLPAD-043	911703	Lock Nut, 5/16+	4
44	LR10K-TLPAD-044	SW-003	Straight, Hose Fitting	3
45	LR10K-TLPAD-045	JP30-05022-A00	Short, Hydraulic Hose	2
46	LR10K-TLPAD-046	1010522	Flat Washer, D13	4
47	LR10K-TLPAD-047	JP30-00016-A00	Anchor Bolt 3/4+x 5.5+(M19 x 140mm)	10
48	LR10K-TLPAD-048	TL-10-9801-03	Long, Hydraulic Hose	1
49	PU-110V-S-K	PU-110V-S-K	110-115V DURO Power Unit, Short Tank	1

LIMITED WARRANTY

Structural Warranty:

The following parts and structural components carry a five-year warranty:

Columns	Arms	Uprights	Swivel Pins
Legs	Carriages	Overhead Beam	
Tracks	Cross Rails	Top Rail Beam	

Limited One-Year Warranty:

Tuxedo Distributors, LLC (iDEAL) offers a limited one-year warranty to the original purchaser of Lifts and Wheel Service equipment in the United States and Canada. Tuxedo will replace, without charge, any part found defective in materials or workmanship under normal use, for a period of one year after purchase. The purchaser is responsible for all shipping charges. 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.

Other Limitations:

This warranty does not cover:

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

Upon receipt, the customer 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 Tuxedo of any missing parts within 72 hours. Timely notification must be received to be covered under warranty.

Tuxedo will replace any defective part under warranty at no charge as soon as such parts become available from the manufacturer. No guarantee is given as to the immediate availability of replacement parts.

Tuxedo 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 Tuxedo 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, Tuxedo 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.

8320 E Hwy 67, Alvarado, TX 76009
Ph. 817-558-9337 / Fax 817-558-9740