

Owner & Installation



Quick Lube HF

Serial Number:

Revision Date: 2/9/21

Lift Manufacturer:



Nussbaum Automotive Solutions, LP
1932 Jordache Court
Gastonia, North Carolina 28052

This Lift and Guide belongs to the owner

PROUDLY
MADE IN USA



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1. Lift Purpose

Nussbaum's lifting systems are the result of over 35 years of experience in the automotive lifting industry. The high quality and superior concept ensures reliability, a long lift lifetime, and a strong economic business solution for your automotive lifting needs. The Quick Lube HF is a single scissor lift with a lifting capacity of 9000 pounds. The lift features a powerful 4.0hp motor and hard-chromed cylinder sets.

2. Liability

To avoid unnecessary damage, injury or death, read all operating instructions carefully. **Nussbaum Automotive Solutions, LP is not liable for any damages, injuries, or deaths resulting from misuse of the lift. The user carries the risk alone.**

There will be no guarantee or liability for incidents involving injuries, death, or damage to equipment if these incidents are the result of one or more of the following:

- Inappropriate use (installation, operation, and maintenance) of the lift
- Use of the lift while security devices are inoperative, not working properly, or are installed incorrectly.
- Failure to follow the operating instructions regarding transport, storage, installation, initiation, operation, and maintenance of the lift.
- Unauthorized changes to the design and operation of the lift.
- Wrong or incorrect maintenance practice.
- Catastrophes, acts of God, or external reasons.
- It should be recognized that any piece of equipment can be dangerous when operated improperly.

Nussbaum lifts are warrantied with the use of Nussbaum original or replacement parts. Use of unauthorized parts may void the warranty. For parts, call Nussbaum Automotive Solutions at 1-704-864-2470.

3. Owner/Employer Responsibilities

The Owner/Employer must:

- Ensure that lift operators are qualified and that they are trained in the safe use and operation of the lift.
- Establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions.
- Establish procedures to periodically maintain the lift in accordance with the lift manufacturer's instructions.
- Maintain the periodic inspection and maintenance records recommended by the manufacturer.
- Display the lift manufacturer's operating instructions in a conspicuous location in the lift area convenient to the operator.
- Require that Personal Protective Equipment (PPE) be used according to the appropriate regulations.
- Display the "Safety Regulations" and adhere to them closely.
- Ensure that all safety and danger signs on and around the lift are observed and followed!
- Follow the specified time intervals between the recommended inspection and maintenance procedures and tests.
- Use only spare parts that comply with the technical requirements specified by the manufacturer.
- Ensure that loose screws, nuts, and bolts are firmly tightened after maintenance.
- NOT modify the lift without written consent of Nussbaum Automotive Solutions, LP.
- Ensure that these instructions are maintained and available to all personnel that install, use, or maintain the lift. This document contains important information about installation, operation, and maintenance of the automotive lift.
- Document any changes to the installation and or location of the automotive lift.

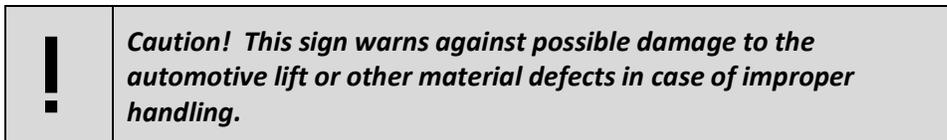
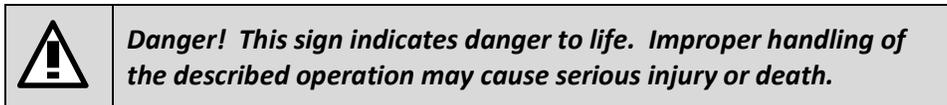
!!! In addition, it is the responsibility of the lift owner to provide and connect any hydraulic hoses and necessary accessories for custom hydraulic hose runs to account for the pit and work area layout. The Quick Lube HF lift comes from the manufacturer with enough hydraulic hose to prepare lift for installation (see section 12.2), but nothing more. It is the responsibility of the lift owner to provide all necessary additional hydraulic hoses and components !!!

4. Lift Operator Responsibilities

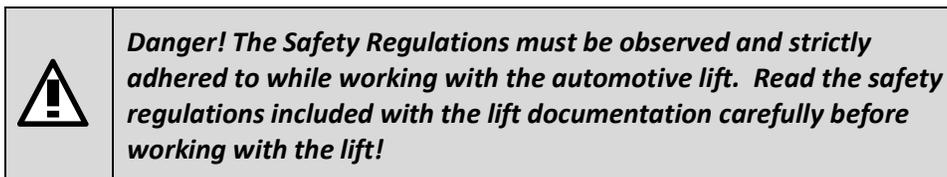
The lift operator must:

- Read and understand all safety and warning instructions in the manual or affixed to the lift.
- Be trained to operate and use the Quick Lube HF lift for its designed use.
- Be familiar with accident prevention and basic labor safety regulations.
- NOT allow unauthorized personnel to operate the lift.

Pay close attention to the danger and important information symbols shown below. Carefully read all marked passages throughout this manual.



5. Safety Regulations



5.1. Important Safety Instructions

- The total weight of the lifted vehicle must not exceed 9,000 pounds.
- The lift must not be installed in a hazardous location or in washing bays.
- The lift must be checked by a service technician after initial installation and after repairs or changes have been made to the lift.
- The operating and maintenance instructions must be followed while working with the lift.
- High density blocks must be positioned correctly.

- Pre-check low clearance or specially equipped vehicles for ample clearance to avoid damage to the vehicle and/or lift.
- Only trained personnel are to operate the lift.
- No one is to stand within the working area (danger area) during vehicle lifting and lowering operations.
- No one is to occupy a vehicle during any phase of lift operation.
- No one is to climb onto the automotive lift when in a raised position.
- The main electrical switch (when applicable) must be switched off and locked out/tagged out according to OSHA Regulations before maintenance or repair work is performed on the lift.
- The operator must continue to observe the vehicle and lift throughout the lifting or lowering operation.
- Check the center of gravity of the vehicle if heavy parts, such as the engine are removed.
- If heavy parts such as the engine must be removed, the center of gravity will change. Secure the vehicle before removing parts to avoid the possibility of the vehicle becoming insecure.
- Read ALL instructions before operating lift.
- Care must be taken as burns may occur from touching hot parts.
- Do not operate the equipment with a damaged cord or if the equipment has been damaged – until it has been examined by a qualified service person.
- To reduce the risk of fire, do not operate equipment near open containers of flammable liquids (gasoline).
- Adequate ventilation should be provided when working on operating internal combustion engines.
- Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
- Use only as described in this manual. Use only manufacturer’s recommended attachments.
- ALWAYS WEAR SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses.

SAVE THESE INSTRUCTIONS

5.2. Safety Devices

Nussbaum has designed several safety features into each lift to ensure safe and efficient operations under a variety of conditions. Warranties will be voided, and dangerous working conditions exist if any of the listed devices are altered or disabled.

Pressure relief valve	Prevents over pressuring of the hydraulic system.
Two independent master-slave systems	Protects against unintentional lowering.
Hydraulic Flow Restrictors	Prevents excessive lowering speed.
Check Valve	Secures the vehicle against accidental lowering.
Hold-to-run controls	Protects against unsupervised operation
Lockable main power switch	Prevents unauthorized use of the lift

6. Operating Instructions

	DANGER! READ ALL OWNER’S MANUAL INSTRUCTIONS BEFORE USING THE LIFT
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6.1. To Load Vehicle

	Danger! The operating instructions must be followed when operating the lift.
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- Clear persons and objects from lift working area.
- Ensure the lifting platforms are in the lowest position.
- If surface mounted, ensure ramps are properly secured and suitable for driving.
- Drive the vehicle over the lifting platforms (long axis). Make certain the vehicle is centered on the lift from side to side. Determine the vehicles center of gravity and position it over the center of the lift scissors (slightly in front of the center of the platforms).

!	The manufacturer’s service garage lift points may be marked on the undercarriage of the vehicle with triangle shaped markings. If the lift points are not marked on the vehicle, refer to the vehicle manufacturer for the approved lift points.
!	The Center of Gravity must be located slightly towards the front of the lifting platforms, positioned directly over the center of the scissors. (Hose Side)

- Secure the vehicle from rolling, put into gear, and apply the parking brake.
- Check all the danger points of the lift to ensure that loose objects or people are clear from lift and working area.

6.2. To Lift Vehicle

- Position the high-density blocks under the pick-up points of the vehicle as described by the vehicle manufacturer. If the platforms are positioned too wide apart to contact a specific vehicle’s lifting points, use the Quick Lube HF arms to reach the lifting points instead.

	Danger! The blocks must be positioned in a safe and secure manner or the vehicle could slip and fall from the lift. Always place blocks flat, not on the narrow edges.
	Modified or specialty vehicles: Contact vehicle manufacturer to determine if vehicle can be lifted on a hinged-pad frame engaging lift.



Figure 1

- Be certain that no bystanders are in or around the vehicle before lifting.
- Lift the handle directly upward and push it FORWARD (Fig. 1). Carefully watch the lift until it contacts the vehicle’s pickup points. Release the handle.
- Walk around the vehicle and assure that the vehicle’s lifting points are making full contact with the blocks/arms. Continue to raise the vehicle.
- Once the wheels clear the ground, ensure the vehicle is safely positioned by a generous shaking. If the vehicle appears unstable, lower the vehicle, and reposition.
- Raise the vehicle to the desired working height making certain that no bystanders are in or around the vehicle during the entire process.

6.3. To Lower and Unload Vehicle

	Danger! When lowering the lift absolute care must be taken to ensure that there are no objects or bystanders in the area in which the lift and vehicle are to be lowered.
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- Lift the handle directly upward and pull it BACKWARD to lower the vehicle. The further down the handle is pulled, the faster the vehicle will descend.

- Release the handle (Fig. 1) when the vehicle has reached the appropriate working height or has reached its lowest possible position.
- Observe the entire lowering process and control the area to ensure bystanders or objects do not enter the area of the lowering vehicle.
- When the lift is in its lowest position remove the high-density blocks. If using the arms, move them out of the path of the vehicle's exit.
- Drive the vehicle off the lift.

SAVE THESE INSTRUCTIONS

7. Inspection and Maintenance Plan

	<i>Attention! Before conducting maintenance work, safety precautions must be in place to eliminate harm to people working with or around the lift.</i>
	<i>Danger! To avoid personal injury, allow only qualified technicians to perform maintenance on the lift.</i>

Service must be performed at regular intervals of **3 months** in accordance with service manual. Proof of maintenance records may be a prerequisite for warranty claims. The maintenance rate must be increased if the lift is in continuous operation, in a dirty environment, or in contact with de-icing salts, sand, pebble stones, natural soil, and industrial dust of all manner, water, or constant humidity caused by insufficient ventilation. During daily operation, the lift must be closely observed to ensure that it is functioning correctly. In the case of malfunction or fluid leak, Technical Service must be informed.

7.1. How often must the lift be cleaned?

The schedule depends on the cleanness of the workshop and location of the lift. The degree may vary depending on the season, weather conditions, and the ventilation of the workshop. The best protection for the lift is a regular cleaning every month. Under bad conditions, it may be necessary to clean the lift every week.

7.1.1. Daily Maintenance

- Clean the lift and the floor with a mild, non-abrasive detergent.
- Remove dirt with a sponge, or if necessary, a soft brush.
- Rinse away detergent with sponge.
- Do not leave any kind of liquid on machine.
- Check for proper operation after any power failure or flooding of the lift of any type.
- Perform equalization procedure if platforms become unlevelled. (See Sec 12.5)
- Check for leaking fluid from pump, hoses, tubes, or cylinders.
- Prevent corrosion by oiling metallic surfaces and retouching paint.
- Lubricate all fittings with high pressure grease.
- Check condition of high-density blocks and replace if worn.
- Check condition of lifting arms, ensure they have full mobility.

- During winter months in “snow belt” areas great care should be taken to keep the lift as free from corrosive ice/snow melting agents as possible.

	<p><i>Danger! Never use any type of pressure or steam cleaning devices on the lift. Damage to the seals and hoses could occur causing failure of the hydraulic system.</i></p>
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7.1.2. Yearly Maintenance

Safety Related

- Check for proper function of all mechanical and hydraulic locking functions.
- Check for proper anchoring to the floor.
- Check for floor stability. (no cracking)
- Check for potential structural failure particularly in welded areas.
- Check for bending or distortion of mechanical parts.
- Replace safety related parts if there is any doubt about the ability to perform their function.

Maintenance Related

- Check for any hydraulic leaks and condition of tubes and hoses.
- Check electrical connections, switches, and fuses.
- Check for wear on bearings, hinge points and shafts.
- Check for condition of all lifting pads.
- Check for corrosion.
- Replace any worn or improperly functioning part before breakdown occurs to save future service charges and down time.
- Replace hydraulic hoses and fluid every 4 years. Replace hydraulic fluid with AW light 150 ISO32 or equivalent.

	<p><i>The condition of the hydraulic hoses is crucial to the function and safety of the lift. Keep a constant eye for tearing, bulging, or any other deformations in the hoses. If any hose is found to be damaged, Nussbaum recommends replacing ALL the hoses.</i></p>
	<p><i>Danger! Before beginning any maintenance work: Locate the power supply main switch and turn off. Secure the danger area around the lift and secure the lift with safety stands to guard against unintentional lowering.</i></p>

Inspection, repair, and maintenance must be performed by a certified Nussbaum technician who has been trained on the lift they are servicing. They must be able to make proper judgment on the repair or maintenance that needs performed to ensure full safety, operational reliability, and structural integrity during the lifetime of the lift. Proper maintenance records should be kept to back up possible warranty claims.

7.2. Instructions for Common Lift Maintenance

PART	ACTION/PRODUCT
Clean the Piston-Rod.	Use compressed air.
Check Oil Level.	Fill the tank with a clean, high quality AW32 oil.
Change the hydraulic oil at least once every 4 years.	To change the oil, lower the lift to its lowest position. Empty tank and refill with clean oil. Approximately 2 Gallons (If ambient temperature is under 40 degrees Fahrenheit, use lower than 32 viscosity). Dispose of used oil according to the appropriate regulations.
Check all welded joints for cracks.	If any cracks are found on the lift, stop use immediately. Switch-off and secure the power supply and call service provider.
Check all external surfaces for damage.	If damaged, repair immediately. If repairs are not made immediately, permanent damage to the powder-coated surface may result. Repair and clean damaged areas with an abrasive paper (120 grit). Coat repaired area with a suitable paint (observe the RAL Number).
Check Zinc Surface. White rust can result from moisture laying in certain areas for long periods of time or poor ventilation. Poor ventilation can also result in rust formation. Rust may result from mechanical damage, wear, aggressive sediments (de-icing salt, liquids), or insufficient cleaning.	Repair and clean these areas with abrasive paper (240 grit). Coat repaired area with a suitable paint (observe the RAL Number).
Check all safety devices.	All safety devices must be in good working condition. If not, contact Technical Service.

ONLY USE REPLACEMENT PARTS THAT ARE PROVIDED BY OR RECOMMEND BY NUSSBAUM AUTOMOTIVE SOLUTIONS

CONTACT TECHNICAL SERVICE ABOUT REPLACEMENT PARTS

8. Technical Information

TECHNICAL RATINGS	TECHNICAL INFORMATION
Lifting Capacity	9,000 lbs
Load Distribution	50/50 front and back of the scissor's center when fully raised
Lifting Time	approximately 20 seconds
Lowering Time	approximately 15 seconds
Line Voltage	208-240 volt, 60 Hz, 30 amp, single phase
Lifting Height	36" (standard height model)
Power Rating	4 HP (2.98 Kw)
Circuit Breaker Requirement	30 Amp min.
Motor Speed	3450 rpm
Hydraulic Pressure	Approximately 4630 PSI (319 bar)
Pressure Relief Valve	Approximately 4640 PSI (320 bar)
Oil Tank Capacity	2 gallons (7.5 Liters)
Sound level	≤ 75 dB

9. Troubleshooting

If the lift does not work properly, refer to the following troubleshooting guide. If the problem cannot be resolved, call Technical Service at 704.864.2470.

PROBLEM	POTENTIAL CAUSE	REPAIR OPTIONS
Motor does not start	No power supply, or feed line is cut	Check the power supply at the facility breaker box and the power supply box.
	Thermal protector in the motor is activated	Let the motor cool for 10 minutes and switch it on
	Internal contactor is defective	Call technical service.
Motor starts, lift does not move	Motor is defective	Call technical service.
	Vehicle is too heavy	Check vehicle for empty weight. Unload unnecessary weight from vehicle. The lift can raise a weight up to 9000 lbs.
	Oil level is too low	Lower lift and fill oil reservoir. Check for leakage. Call Technical Service if leakage is observed. Refill the oil if necessary with AW light 150 ISO32 hydraulic fluid or equivalent.
	Hydraulic pump is defective	Call Technical Service.
	Coupling between motor and pump is defective	Call Technical Service.
	Pressure line leaking	Call Technical Service.
Motor starts, lift “bucks” as it lifts	Pressure relief valve is defective	Call Technical Service.
	Cylinder is defective	Call Technical Service.
	Low voltage (must be over 205V during operation)	Have qualified electrician check connections
The lift will not lower	An obstacle is restricting the lift from being lowered	Press the Raise Button until the obstacle is freed. Remove the obstacle.
	Operating lever is defective	Call Technical Service
	Lowering valve is defective	Call Technical Service.
The lift lowers unexpectedly	Lowering valve is defective	Call Technical Service.

10. Filling the Hydraulic Systems

The lift is fully assembled and tested to assure functionality at the factory and is delivered with the setup hoses connected to the unit. After unpacking the power unit, loosen the Allen head screws to remove the back cover and fill the power unit with a high-quality hydraulic oil with a viscosity of AW32. The required oil volume is approximately 2 gallons. After filling, the oil must be near the top of the oil dipstick or to the “fill” line.

- Make certain the lift area is free of all bystanders.
- Check all hydraulic connections for tightness, most leaks occur at connection points.

	<i>Danger! The lift is pre-tested at the factory, so the hoses and cylinders are already full of oil. Over-filling the system before bleeding and lowering can cause the tank to overflow due to the excess fluid.</i>
	<i>This procedure must always be completely carried out, meaning first fill and then bleed (see section 12.5). This is the only method of balancing a lift with HyperFlow</i>

11. Preparing for Installation

11.1. Safety Checks and Tools

The safety checklist is necessary to guarantee safe operation of the lift during use.

Safety checks should occur as follows: after installation, before initial startup, after initial startup, at least once a year, and any time modifications have been made to the lift. The safety checklists can be found before the Appendix section.

	<i>Danger! Before the installation of the lift, secure the installation area to prevent access by unauthorized persons.</i>
	<i>Attention! Before beginning installation, familiarize yourself with the entire installation process and with the “Foundation Plan” (Appendix 4 and 5).</i>

A. TOOLS NEEDED FOR THE INSTALLATION

- Marking Pen
- Tape Measure
- 4' Level
- Hammer Drill
- ½" & ¼" Masonry Bits
- Metric Hex Key Set
- Hammer
- SAE Wrench Set
- Transmission funnel

B. SUPPLIES NEEDED FOR INSTALLATION

- 8 ½" x 6-½" concrete anchors (additional 16 if installing surface ramps)
- 4 ¼" x 3" concrete anchors
- 2 gallons AW32 light hydraulic fluid or equivalent.

11.2. Prepare Lift Assembly Location



Attention! These locations are merely guidelines. The shop owner should always be consulted to determine work habits, vehicles serviced and preferences of the shop technicians.

The installation of the lift is performed by manufacturer trained technicians or by the manufacturer's distribution partner. The lift owner may use their trained mechanics to install the lift. The installation must be performed according to the following regulations:

- Lift is intended for indoor installation only. Installation in an outdoor application is prohibited and will void the warranties of the product.
- Always consult a qualified person regarding local regulations for seismic requirements.
- Do not install lift in hazardous locations, depression areas, or washing stalls.
- Concrete must have compression strength of at least 3,500 PSI and be a minimum of 4 inches thick.
- Mount on a level foundation.

11.3. Establishing Front or Rear Platform Guidelines

- The exact front/rear placement of the lift is entirely up to the discretion of the lift owner based on space limitations and lift usage. The following are the MINIMUM guidelines we recommend for lift placement. It is the responsibility of the lift owner and installers to determine how much clearance space is needed for the given location to ensure safe use.
- **Establishing location from the lift front:** Allow at least 8' between the front of the lift platform and any obstacles.
- **Establishing location from the lift rear:** Allow at least 10' from the inside of the door to the rear of the platform.

11.4. Concrete Foundation for Flush Mounting the Lift

- If flush mounting the Quick Lube HF, follow foundation plans in Appendix 4 during pouring of concrete floor.
- If not flush mounting, ignore this section.

12. LIFT INSTALLATION

12.1. Unpack container

Part	Quantity
Owner/Installation Manual	1
Power Unit	1
Lifting Platforms	2
High density blocks	8(4 Large, 4 Small)
Hydraulic Hoses	1 set
Platform Ramps (if above ground)	4
Flushmount Kit (if flushmounted)	1
• Angled brackets (x4)	
• Top plate (x2)	
• M8x16 countersunk bolts (x8)	

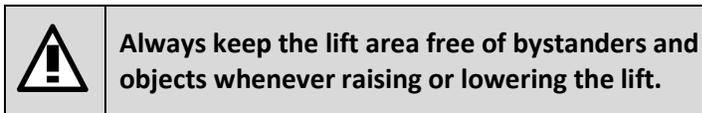


Attention! Report any shortages immediately

12.2. Preparing Lift Platforms for Installation

For installation, the lifting platforms must be fully raised to allow access to the anchoring holes. The provided hydraulic starter hoses come connected to the lifting platforms and power unit. Check all connections to ensure that they are tight. Fill the system with proper hydraulic fluid (section 10).

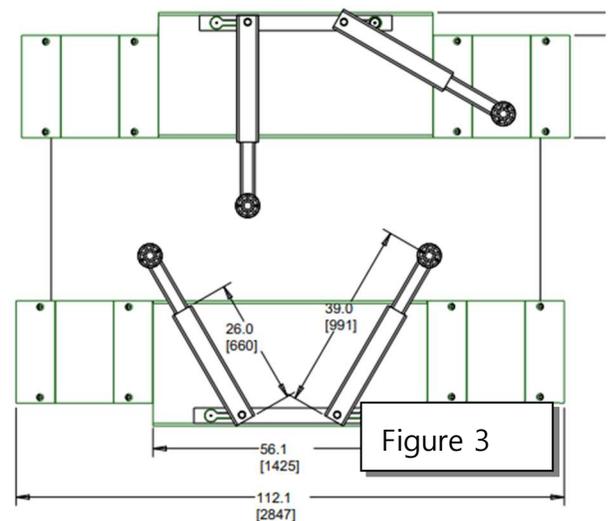
Remove the bolts from the side of the power unit lifting handle (Figure 2) and take handle apart completely. Remove screws from the side of the power unit top cover and lift it off. Once the top cover is removed, have a qualified electrician connect electrical power to the power unit (Appendix 3). Use the power handle to raise the lifting platforms (see section 6.2). The maximum height of the lift is 36" (915mm).



With the platforms raised they can now be properly positioned. Determining this positioning will depend on if the lift is being flush mounted below the concrete surface level, or if it is being mounted straight onto the surface level. However, in both cases the front of the platforms (hydraulic hose end) need to face the same direction. If this is followed, the joints of the lifting arms will be on the outside edges of the lift (figure 3).

If the lift is being flush mounted below the surface level concrete, simply follow the foundation plans in Appendix 4 for proper positioning and skip ahead to section 12.3.

If the lift is being surface mounted, begin by placing one platform on either side of the central pit. Align each platform so that its inner most edge is flush with the edge of the pit. Ensure that the lifting platforms are square with one another and the pit. Finally, align the front edge of each platform with the other, so that the two lifts are at the same location relative to the length of the pit. Once finished, the arrangement should resemble figure 3. Check the underside of each lifting platform to ensure that the base is making full and complete contact with the ground. If there are gaps between the frame and the floor, those areas in which the load of the lift is passed to the base frame must be filled with high strength grout.



12.3. Mounting the Platform and Power Unit

Drill ½” (12mm) mounting holes through their corresponding locations in the four corners of each platform. To ensure the platforms do not move during the drilling process, insert an anchor after each hole is drilled. Make sure to clean all debris from holes before inserting anchors. (Fig. 4)

	<p><i>As the Quick Lube HF will most likely be installed on an area over a basement, the utmost attention must be paid to how it is anchored. Many buildings use stress cast, precast or post cable tensioned concrete. Improper anchoring of the lift into these surfaces can severely reduce the load capacity. You must understand the kind of slab you are anchoring to and follow the appropriate anchoring techniques for it.</i></p>
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Determine the final location for the power unit. Ensure that this location guarantees a safe distance from the lifting platforms for both the unit and its operator. Once a safe location has been established, drill ¼” (6mm) holes through corresponding locations in the base (Fig. 6). Insert anchors as the holes are drilled to prevent any potential movement.

If the lift is being surface mounted, place the four loading ramps around the lift as shown in figure 3. Like the platforms, the inner side of the ramps should be flush with the pits edge, as shown in figure 5. Push the ramps up against the lifting platforms on their front and back side. Create a small gap (~1/2”) between the ramps and platforms to ensure that they do not scrape against one another during lift operation. Drill ½” holes in the 4 anchoring points on the ramp and install anchors.

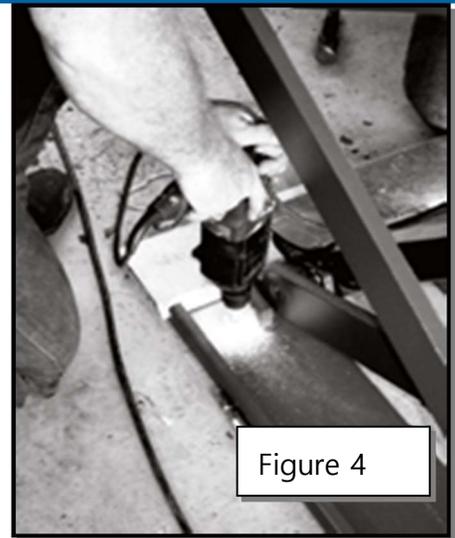


Figure 4

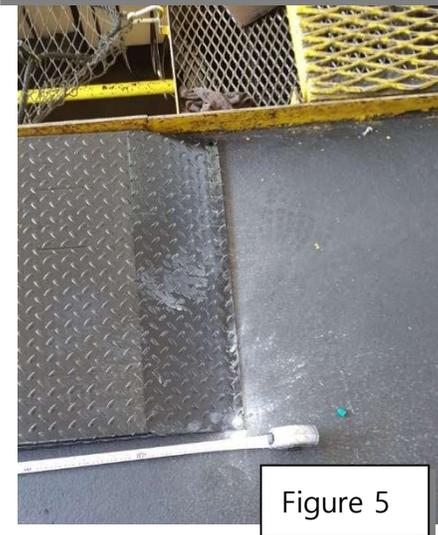


Figure 5

12.4. Custom Hose Runs

As mentioned previously (Section 3), it is the responsibility of the customer to provide all necessary hydraulic hosing and components needed for a custom hose run to account for the pit/work area layout. **The hoses used with this system are ¼” double braided with “8 light” metric fittings.** Once the platforms and power unit have been fully mounted to the concrete, begin this run of hydraulic hoses between the power unit and the platforms. Use the diagram in Appendix 2 to ensure that all connections are correct.

When the hoses have been run and properly connected, do a final visual inspection to make sure that there are no kinks in the hoses, and that no components of the hydraulic circuit are in any danger of being crushed or broken by the movement of the lift. Cycle the lift through several up/down cycles observing all hydraulic hoses and fittings for leaks. If leaks are present, tighten fittings to eliminate. If leaks are still present, contact Nussbaum Technical Service.

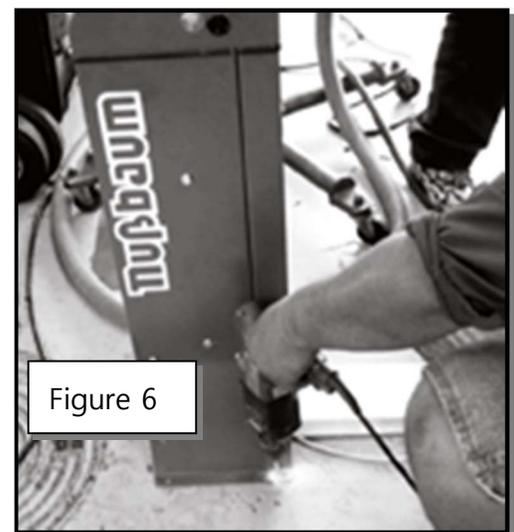
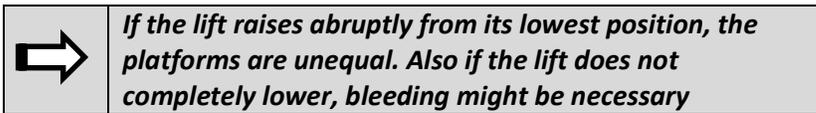


Figure 6

12.5. Bleeding and Equalization of the Lift



Make sure there is no external leaking of hydraulic fluid. Use the handle to raise the lift to the highest position. Once the lift reaches the maximum height, continue allowing the motor to run for approximately 30 seconds, adding fluid if necessary.

This allows the Hyperflow system to circulate all air back to the hydraulic reservoir!

13. Final Installation Checkout Instructions

1. *Review* Operation Instructions on pages 6-7.
2. *Perform* all steps as outlined in the Operation Instructions on pages 6-7 several times.
3. *Verify* all operations function properly and securely.
4. *Demonstrate the operation of the lift to the owner/operator and review correct and safe lifting procedures*
5. *Provide the complete lift documentation package to the owner for future reference.*
6. *Complete* the Manufacturer's Checklist below and *Review* with the Owner.
7. *Review* the terms of the warranty registration card.
8. *Complete and Return* the card along with a copy of the completed Manufacturer's Checklist to:

Nussbaum Automotive Solutions, LP
1932 Jordache Court
Gastonia, NC 28052

Fax: 1-704-864-2476

Email: warranty@nussbaum-usa.com

First security check before installation

 *Filling out and leave in this manual*

Serial-no.: _____

kind of check	all right	defect missing	ver- fication	remark
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Short operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Designation lifting/lowering.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Detailed operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Main switch lockable.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function foot protection.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "Lifting/Lowering".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function Ramps.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition automotive lift.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing of bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation,cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed seat of the screws.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition operating unit.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition surface piston rod.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition coverings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical wires.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the hydraulic system.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function equalisation of the lift.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition polymer-supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until.....
- No failings, Initiation possible

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

.....signature of the operator

(Use another form for verification!)

Regular security check

 Filling out and leave in this manual

Serial-no.: _____

kind of check	all right	defect missing	verification	remark
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Short operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Designation lifting/lowering.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Detailed operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Main switch lockable.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function foot protection.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "Lifting/Lowering".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function Ramps.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition automotive lift.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing of bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation,cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed seat of the screws.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition operating unit.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition surface piston rod.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition coverings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical wires.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the hydraulic system.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function equalisation of the lift.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition polymer-supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until.....
- No failings, Initiation possible

.....
signature of the expert

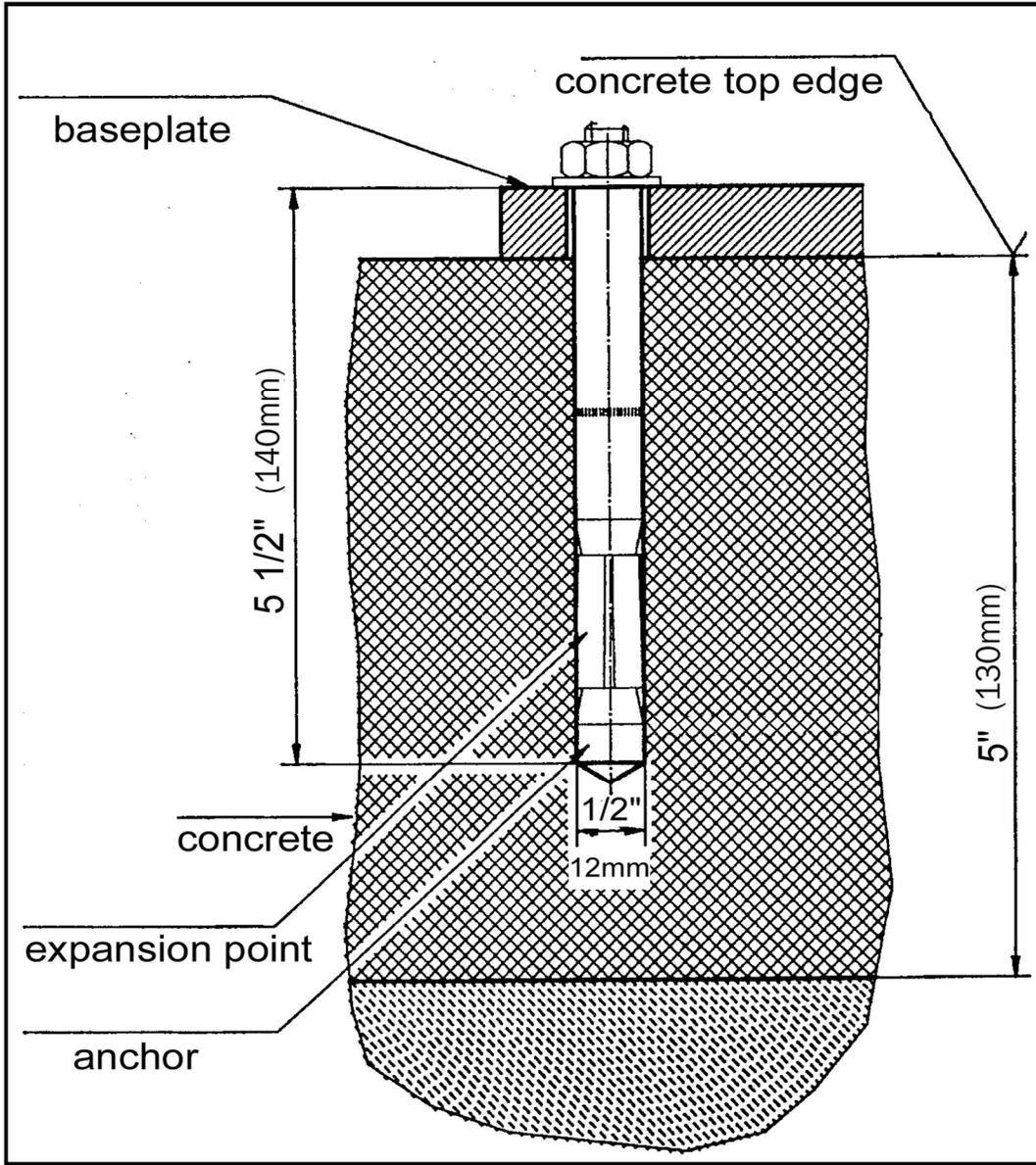
.....
signature of the operator

If failures must be repaired:

Failures repaired at:signature of the operator

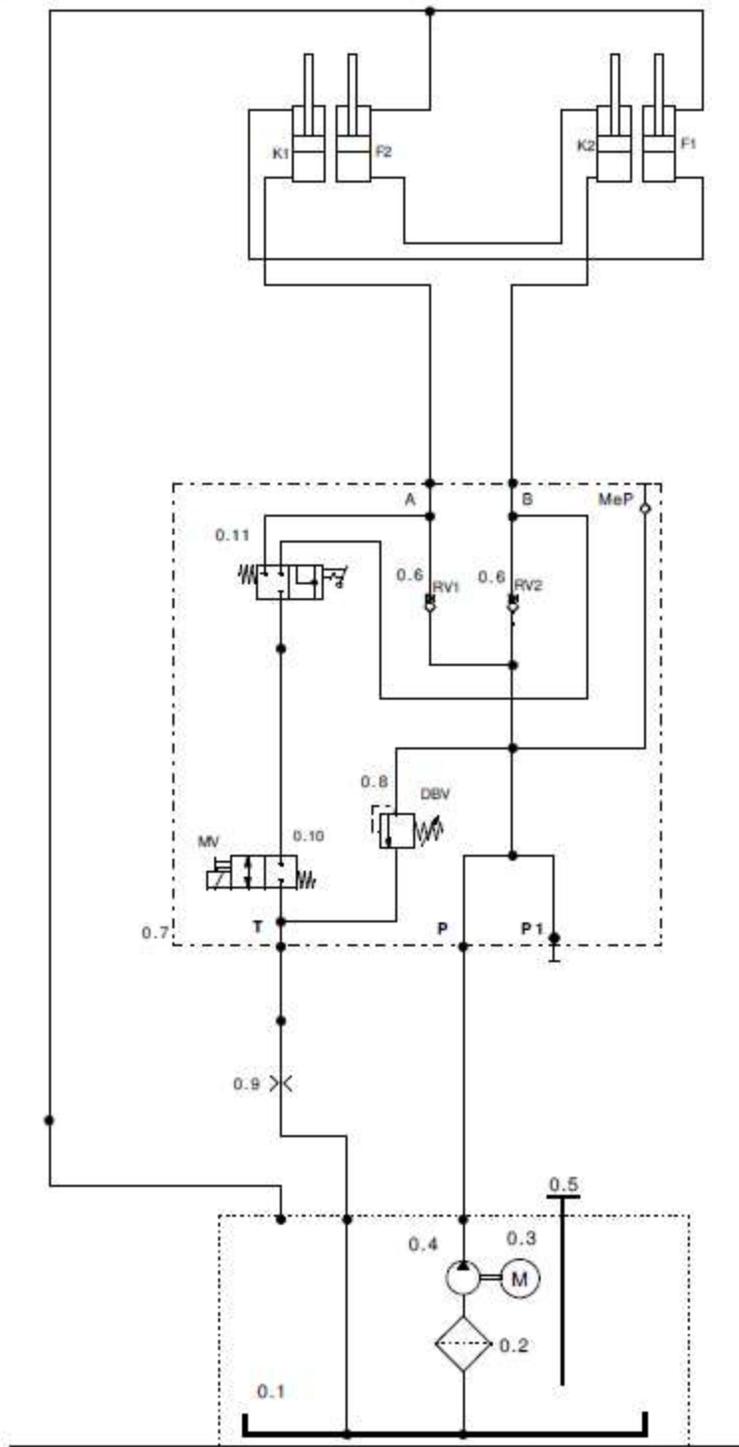
(Use another form for verification!)

APPENDIX 1: CONCRETE ANCHOR SPECIFICATIONS



APPENDIX 2: HYDRAULIC DIAGRAM

Hydraulic plan



0.1	OIL CONTAINER	0.7	000JL21151	HYDRAULIC BLOCK	
0.2	980012	SUCTION FILTER	0.8	155211	PRESSURE RELIEF VALVE
0.3	992658	MOTOR	0.9		BEZEL D1.5
0.4	980340	MECHANICAL PUMP 2.7 CM ³	0.10	158641	DOUBLE-ACTING VALVE
0.5	980011	OIL DIPSTICK	0.11	974820	BALL VALVE
0.6	983700	CHECK VALVE			

Hydraulic Parts List - Continued

K1 – Master Cylinder 1

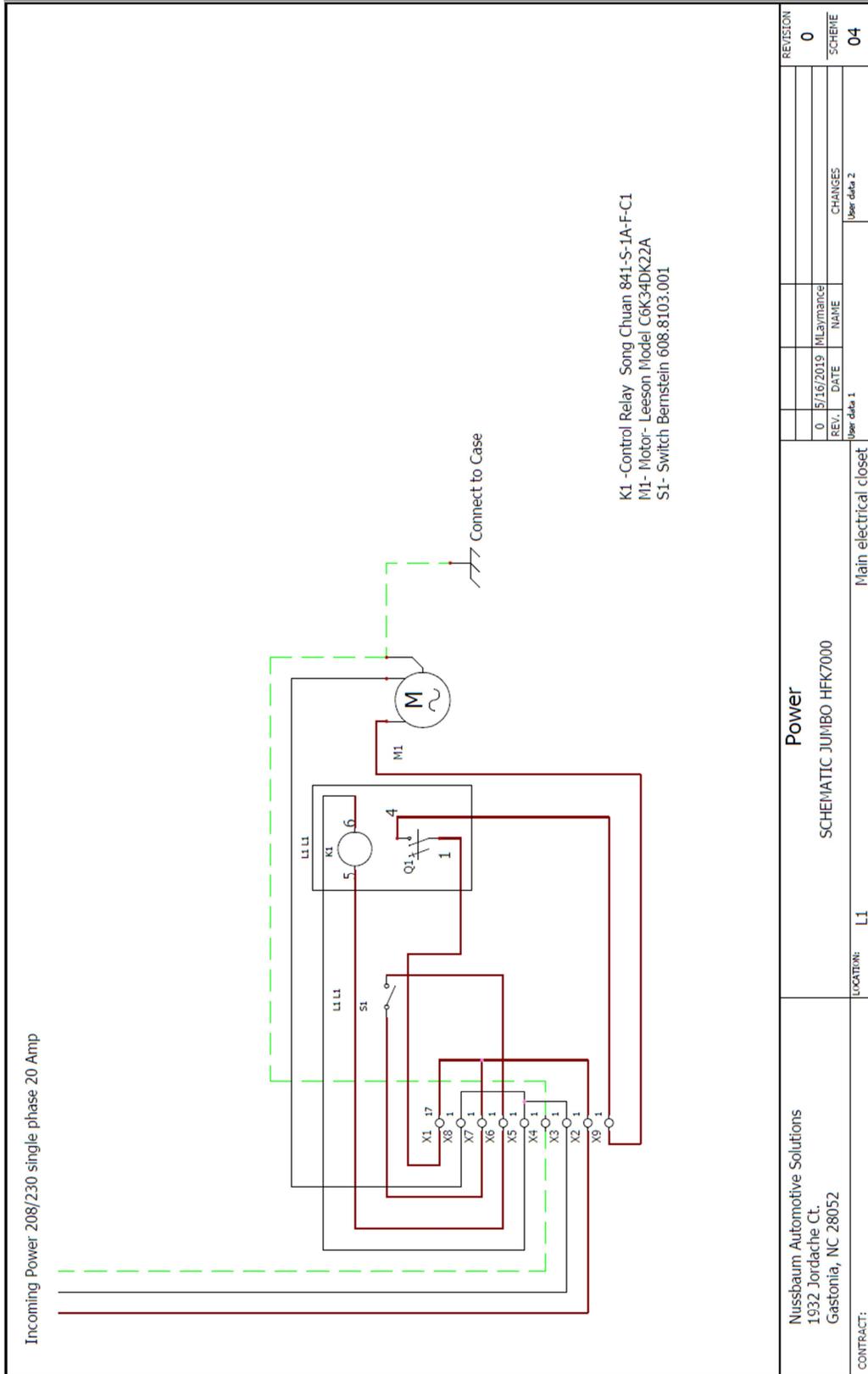
F1 – Slave Cylinder 1

K2 – Master Cylinder 2

F2 – Slave Cylinder 2

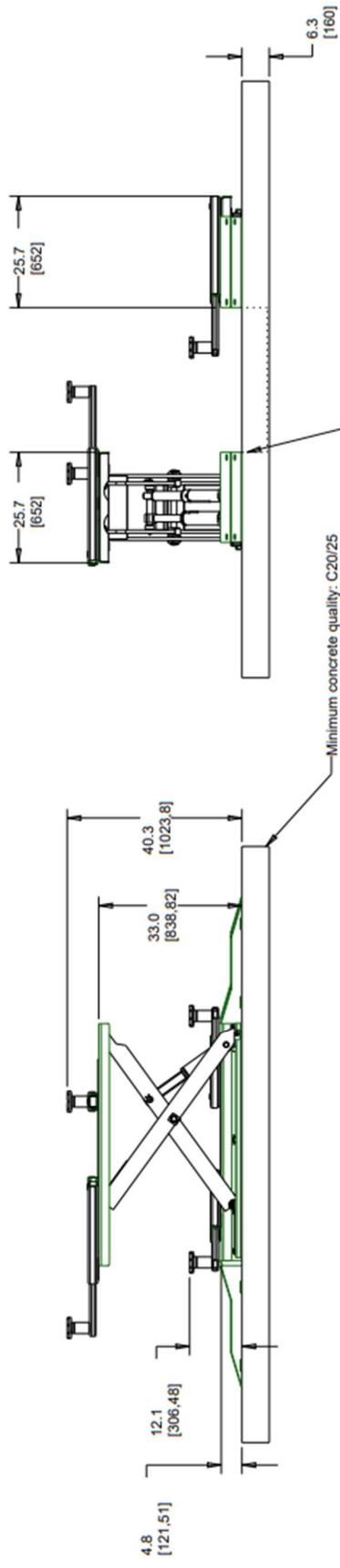
MeP - Measuring Port (pressure)

APPENDIX 3: ELECTRICAL DIAGRAM-230 V SINGLE PHASE



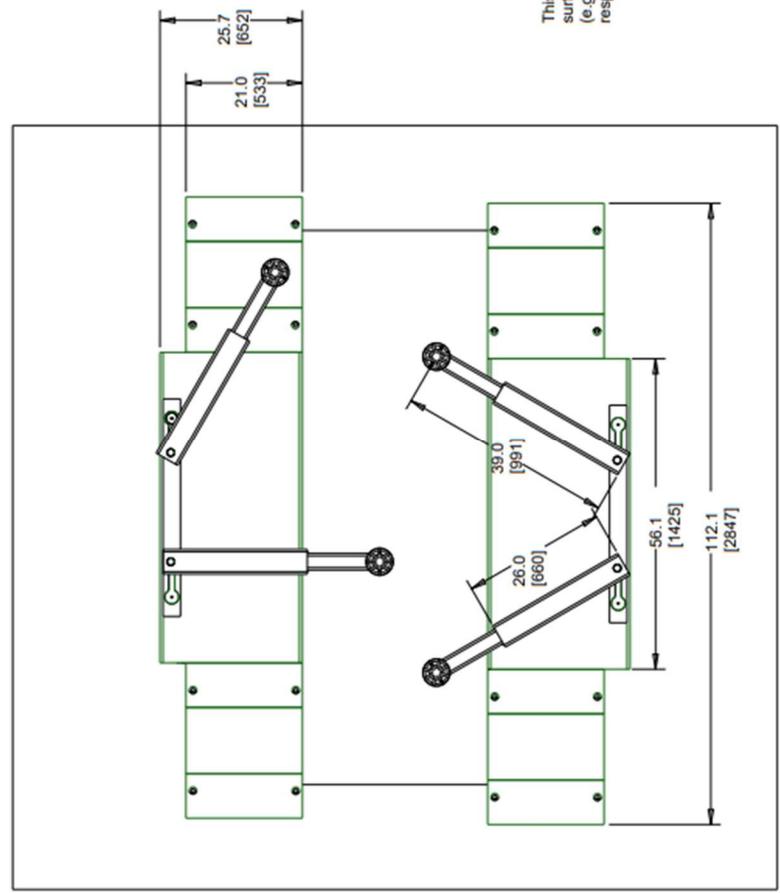
Nussbaum Automotive Solutions 1932 Jordache Ct. Gastonia, NC 28052		Power		REVISION
CONTRACT:		SCHEMATIC JUMBO HFK7000		0
LOCATION: L1		Main electrical closet		04
		REV. DATE	CHANGES	SCHBIE
		0 5/16/2019	MLyminance	
		REV. DATE	NAME	USER data 2
		0		04
		REV. DATE	NAME	USER data 1

APPENDIX 5: SURFACE MOUNT DATA SHEET



Minimum concrete quality: C20/25

The width of the pit is up to the discretion of the lift owner. The platforms should be mounted parallel to the pit walls, with each equidistant from the edge of the pit.



This plan indicates the minimum foundational requirements for surface mounting the lift. The conditions of the locale (e.g. ground quality under the foundation) lie outside of Nussbaum's responsibilities. Consult an architect if necessary.

ALL DIMENSIONS IN METERS REFERENCE DIMENSIONS DATE: 11/13/21 MODEL: 7054 SM		Model: 0.028 Weight: 3520/2812/151.52 kg
TOLERANCES UNLESS OTHERWISE SPECIFIED ±0.1 ±0.2 ±0.3 ±0.5 ±1.0		Name: _____ Date: 11/13/21 MFD: _____ Scale: _____ Unit: _____
Title: Quick Lube Surface Mount Plan		Drawing Number: 7054 SM Revision: _____ Date: _____ By: _____ Check: _____