



HD2P-10000AC-D 10,000 LB CAPACITY 2 POST DIRECT DRIVE LIFT

FOLLOW THIS MANUAL CAREFULLY TO ENSURE THE EQUIPMENT WILL FUNCTION CORRECTLY AND PROVIDE MANY YEARS OF DEPENDABLE SERVICE. FAILURE TO FOLLOW THESE INSTRUCTIONS AND SAFETY WARNINGS MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE. KEEP THIS MANUAL IN A SAFE DRY PLACE FOR FUTURE REFERENCE.



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CONTENTS

1-SAFETY	
1.1 INTRODUCTION	1
1.2 SAFETY INSTRUCTIONS FOR COMMISSIONING	1
1.3 SAFETY INSTRUCTIONS FOR OPERATION	1
1.4 SAFETY INSTRUCTIONS FOR MAINTENANCE	3
1.5 RISKS	3
2-DESCRIPTION	
3-UNPACKING & SETUP	
3.1 DELIVERY AND CHECK OF PACKAGES	
3.1 DELIVERY AND CHECK OF PACKAGES	_
3.2 LIFTING AND HANDLING	
4 SPECIFICATIONS	
5-FLOOR REQUIREMENTS	
5.1 SELECTING THE SITE AREA	
5.2 FLOOR REQUIREMENTS	
5.3 IMPORTANT CONCRETE AND ANCHORING INFORMATION	
5.4 ANCHORING TIP SHEET	
6-INSTALLATION INSTRUCTIONS	8
7-OPERATION INSTRUCTIONS	13
7.1 DEFECTS / MALFUNCTIONS	
7.2 CONTROLS	
7.2.1 UP CONTROL	
7.2.2 SAFETY LOCK CONTROL	
7.2.3 LOWERING CONTROL	
7.3 OPERATION	
8-MAINTENANCE	
8.1 MAINTENANCE SCHEDULE	
8.1.1 DAILY	
8.1.2 WEEKLY	
8.1.4 BIMONTHLY	
8.1.5 YEARLY	
8.1.6 EVERY OTHER YEAR	
8.2 MAINTENANCE BY OPERATOR	
8.2.1 HYDRAULIC SYSTEM	
8.2.2 GREASING POINTS 8.2.3 OPERATION AND WEAR CHECKS	
8.2.4 LIFT STABILITY	
8.3 CLEANING	
9-TROUBLESHOOTING	
10-OWNER/EMPLOYER RESPONSIBILITIES	
11-DIAGRAMS (FIG. 1-5)	
FIG. 1 - MAIN COMPONENTS	
FIG. 2 - EXPLODED PARTS VIEW	
FIG. 3 - ELECTRICAL	25
FIG. 4 - POWER UNITFIG. 5 - DIMENSIONS	26



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To Our Valued Customers:

Thank you for purchasing a Titan Lifts® product. We hope this high quality equipment provides you with years of dependable service.

It is unfortunate that rare situations may occur with the products you purchase from Titan Lifts[®]. We value your business as well as the trust you have and need to maintain your relationship with us. Titan Lifts[®] carries liability coverage that may protect our customers if a situation does occur. However, as in all accidents there must be proof of liability for a claim to be made. Our insurance company requires the following procedures be observed in order to consider a claim:

- A. The claimant must contact the Titan Lifts® distributor immediately with the facts of the situation.
- B. If any equipment is damaged, including vehicles or shop equipment, Titan Lifts® must be given the opportunity to send an impartial representative to the site for proper assessment of the situation.
- C. The Vehicle cannot be moved until either an impartial representative has reviewed the accident or clear and precise pictures are taken that reflect all the pertinent information for an impartial representative to be able to access the information from a distance. Titan Lifts® or its representatives must approve the pictures before anything can be moved.
- D. If any potential liability is determined on behalf of Titan Lifts®, two estimates must be submitted for damages to be reimbursed.

It is imperative that the claimant complies with these procedures, because without proper assessment of the situation a claim will be denied.

ARBITRATION NOTICE

The installation or use of this equipment shall constitute an acknowledgement that the user agrees to resolve any and all disputes or claims of any kind whatsoever, which relate in any way to the equipment, by way of binding arbitration, not litigation. No suit or legal action may be filed in any state or federal court. Any arbitration shall be governed by the Federal Arbitration Act, and administered by the American Mediation Association, Indianapolis Indiana. The maximum amount that an arbitrator may award and all damages shall not exceed the retail value of this equipment.

WARRANTY NOTICE

This equipment must be assembled and used in the manner according to the documentation provided to be covered by warranty.

Damaged or missing components must be reported within 72 hours of receipt to your freight carrier and to the distributor. Claims must be filed to cover cost.

If you have any questions or if we can be of any further assistance, please don't hesitate to contact a Titan Lifts® representative at 1-888-908-4826. Thank you for the opportunity to continue to serve your lift equipment needs.

INSTRUCTIONS 1-SAFETY

1.1 INTRODUCTION

WARNING: READ ENTIRE MANUAL AND COMPLY WITH ALL SAFETY AND SERVICE PRECAUTIONS. DEATH, PERSONAL INJURY AND / OR PROPERTY DAMAGE MAY OCCUR IF INSTRUCTIONS ARE NOT FOLLOWED CAREFULLY.

Personal injury and property damage incurred due to non-compliance with these safety instructions are not covered by the product liability regulations.

SYMBOLS

FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY.

FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PROPERTY DAMAGE.



1.2 SAFETY INSTRUCTIONS FOR COMMISSIONING

- The lift may be installed and commissioned by authorized service personnel only.
- The standard lift version may not be installed and commissioned in the vicinity of explosives or flammable liquids, outdoors or in moist rooms (e.g. car wash).

1.3 SAFETY INSTRUCTIONS FOR OPERATION

- Read this entire manual.
- Load should not exceed rated capacity for this lift −10,000 lbs. (2,500 lbs per lift arm)
- · Only trained authorized personnel over the age of 18 years should operate the lift.
- Indoor use recommended.
- Always lift the vehicle using all four arms.
- Never use the lift to raise one end or one side of vehicle.

- Maintain a safe working environment. The work area should be clean, dry, clutter free, and sufficiently lit.
- · Vehicle doors should be closed during the raising and lowering cycles.
- Closely watch the vehicle and lift during the raising and lowering cycles.
- Do not operate the lift in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power equipment can create sparks which may ignite flammables.
- · Keep hands, tools, and other extremities from under carriage and moving parts.
- · Never operate this lift with someone on it.
- · Do not allow anyone on the lift or inside a raised vehicle.
- Keep children and bystanders away from work area. Do not let children operate or play on lift.
- Wear proper safety attire. Do not wear loose fitting clothing while operating lift. Long hair, jewelry and sleeves should be secured.
- Never leave the lift unattended while under a load.
- Do not operate this lift if under the influence of drugs, alcohol, or medication. Operator must be alert at all times when using heavy lift equipment.
- · Comply with all applicable accident prevention regulations.
- Only use the vehicle manufacturer's recommended lifting points.
- · After positioning the vehicle, apply the parking brake.
- Use caution when removing or installing heavy vehicle components which may result in center-of-gravity displacement.
- Use this lift only for the work it is intended. Do not use this product for an application for which it was not designed. Misuse can lead to personal injury and/or property damage.

WARNING: Prior to completely raising the vehicle, raise the vehicle 6" off the ground and check the adapter pads for solid contact by performing the "BUMPER TEST". Walk around the back of the vehicle and push up and down on the bumper. The vehicle will rock, but should not at any time lose contact with the pads. If the vehicle is bouncing off the pads or feels at all unstable, you should lower it back to the ground and reposition the pads to balance the load. Repeat this process until the vehicle is completely stable.

WARNING: Use this lift only in well ventilated areas. Carbon monoxide exhausted from running vehicle engines is a colorless, odorless fume that, if inhaled, can cause serious personal injury or death.

WARNING: People with pacemakers should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pacemaker could cause interference or failure of the pacemaker.

WARNING: This product contains or produces a chemical known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code 25249.5 et seq.)

1.4 SAFETY INSTRUCTIONS FOR MAINTENANCE

- Maintenance or repair work should be done by authorized service personnel only.
- · Work on the electrical equipment should be done by certified licensed electricians only.
- Ensure that ecologically harmful substances are disposed of in accordance with the appropriate regulations.
- To prevent the risk of damage, do not use high pressure / steam jet cleaners or caustic cleaning agents.
- · Do not replace or override the safety devices.

1.5 RISKS

WARNING: Risks the personnel could encounter, due to an improper use of the lift, are described in this section.

CRUSHING RISK

During lowering of runways and vehicles, personnel must not be within the area covered by the lowering trajectory. The operator must be sure no one is in danger before operating the lift. Stay clear of the lift when lowering or raising vehicles. Keep hands and feet away from moving parts and especially points that could pinch. Keep your feet clear of the lift when raising and lowering vehicles.

BUMPING RISK

When the lift is stopped at relatively low working height, the risk of bumping against projecting parts increases. Always be aware of your surroundings and avoid bumping your head or body on the lift or the vehicle.

RISK OF THE VEHICLE FALLING FROM THE LIFT

Risk of the vehicle falling from the lift is increased: when the vehicle is improperly placed on the platforms, when the vehicle's weight or physical dimensions exceed the rated capacity of the lift, or when there is excessive movement of the vehicle while on the lift. If vehicle appears to begin falling, exit the area as quickly as possible to avoid injury. Always position vehicle with the center of gravity midway between the adapters. Adding or removing parts of a vehicle on the lift will alter the weight displacement on the lift. Therefore, use of auxiliary safety stands in the front and back of the vehicle is recommended. Never override the manufactured lift controls. Always use height adapter pads when possible to ensure proper contact. Only authorized personnel should be allowed in the lift area and the lift should only be operated by authorized and trianed personnel. Adding or removing parts of a vehicle on the lift will alter the weight displacement on the lift.

2-DESCRIPTION

This lift is a 10,000 lb. capacity, surface mount clearfloor, 2-Post Lift with asymmetric swing arm setup and direct drive hydraulic system. The safety latch system is very similar to an extension ladder. The safety latch is in contact with the rack as the lift ascends and drops into place as the lift rises. Safety latch engages in rack in 3 1/2" increments at about 26 1/2" from the ground. The latch must be manually disengaged for the lift to descend. The latch is released by pulling the release cable raising the latch up off the latch rack. Once the raise button is pressed, the latch will automatically re-engage after approximately 3"of travel. The work is done by a 3" cylinder directly, driven by a hydraulic pump capable of providing 3,000 psi.

Please read the Safety Procedures and operation instructions in this manual before operating the lift. Proper installation is very important. To minimize the chance of making an error in installation, please read this manual thoroughly before beginning installation. Check with building owner and/or architect's building plans when applicable. The lift should be located on a level floor with 4" 3000 psi concrete sufficiently cured, for at least 30 days.

This is a vehicle 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 uses 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.

3-UNPACKING & SETUP

Only skilled personnel who are familiar with the lift and this manual shall be allowed to carry out, lifting, handling, transport and unpacking operations.

3.1 DELIVERY AND CHECK OF PACKAGES

When the lift is delivered, carefully unpack the lift making sure all the parts have been included. Check for possible damages due to transport and storage; verify that what is specified in the confirmation of order is included. In case of damage in transit, the customer must immediately inform the carrier of the problem.

Remove the lift and all parts from delivery pallet and place on a clean, solid, flat surface. Packages must be opened paying attention not to cause damage to people (keep a safe distance when opening straps) and parts of the lift (be careful the objects do not drop from the package when opening.)

3.2 LIFTING AND HANDLING

When loading/unloading or transporting the equipment to the site, be sure to use suitable loading (e.g. cranes, trucks) and hoisting means. Be sure to hoist and transport the components securely so that they cannot drop, taking into consideration the package's size, weight, center of gravity, and its fragile parts.



LIFT AND HANDLE ONLY ONE PACKAGE AT A TIME

3.3 PREPARATION

Professional installation is required. The following tools and equipment are needed:

- 1. ISO-32, AW-32, or AW-46 hydraulic oil (2.5 Gallons)
- 2. Chalk line and Tape Measure
- 3. Rotary Hammer Drill with 3/4" Drill Bit. Core Drill Rebar Cutter recommended
- 4. 4' Level
- 5. Sockets and Open Wrench set, metric & standard (1-1/8" for 3/4" Anchors)
- 6. Pliers
- 7. Torque Wrench
- 8. Metric allen wrench set

4 SPECIFICATIONS

Model	Description	Capacity	Lifting Time	Overall Height	Overall Width	Between Posts
HD2P- 10000AC-D	Clear Floor/ Asymmetric	10,000 lbs	75 sec.	144 3/4"	145"	117 3/8"
				Drive-Thru	Lifiting Height	Power Unit
	1			Diive iiiia	Linding Holgin	1 OWEL OILL

^{*}Due to minor variances in the manufacturing process, dimensions in this manual may vary slightly from the finished product.

5-FLOOR REQUIREMENTS

5.1 SELECTING THE SITE AREA

- 1. Make sure that adequate space and height is available.
- 2. Check for ceiling clearance (lifting height plus vehicle height).
- Check for clearance in front and rear of vehicle on lift.
- 4. Check for overhead garage door clearance.

5.2 FLOOR REQUIREMENTS

Do not use the lift on any asphalt surface. Make sure the lift is used on a dry, oil/grease free, flat level CONCRETE surface capable of supporting the weight of the lift, the vehicle being lifted, and any additional tools and equipment. The concrete floor surface should have a minimum thickness of 4". The concrete must have a minimum strength of 3,000 PSI, and should be aged at least 30 days prior to use. Do not use the lift on concrete expansion seams or on cracked, defective concrete.

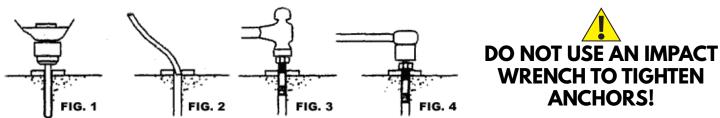
WARNING: SPECIFICATIONS OF CONCRETE MUST BE ADHERED TO. FAILURE TO DO SO COULD CAUSE LIFT FAILURE RESULTING IN PERSONAL INJURY OR DEATH. THE FLOOR SHOULD BE A REINFORCED CONCRETE SLAB NOT LESS THAN 4" (101.6MM) THICK WITH THE COMPRESSIVE STRENGTH OF THE CONCRETE NO LESS THAN 3,000 PSI.

DANGER: FOR CORRECT INSTALLATION OF THE LIFT, THE FLOOR MUST BE FLAT AND LEVEL. CHECK WITH STRAIGHT EDGE AND LEVEL. IF A FLOOR IS OF QUESTIONABLE SLOPE, CONSIDER A SURVEY OF THE SITE AND/OR THE POSSIBILITY OF POURING A NEW LEVEL CONCRETE SLAB.

IMPORTANT: NEW CONCRETE MUST BE ADEQUATELY CURED AT LEAST 30 DAYS MINIMUM. NO LIABILITY FOR ANY DAMAGES WILL BE ACCEPTED SHOULD YOU INSTALL THE LIFT ON AN UNSUITABLE FLOOR.

5.3 IMPORTANT CONCRETE AND ANCHORING INFORMATION

- 1. Concrete shall have compression strength of at least 3,000 PSI and a minimum thickness of 4". Measure the length of the supplied anchor bolts in order to achieve a minimum anchor embedment of 3-1/4". If the top of the anchor exceeds 2" above the floor grade, you DO NOT have enough embedment.
- 2. Before drilling 3/4" dia. Holes in concrete floor using holes in column base plate as guide, make sure the hole distance from the edge is not less than 6". Hole to hole spacing should not be less than 6 1/2 in any direction. Concrete thickness should be a minimum of 4"
- 3. **DANGER: DO NOT** Install on asphalt or other similar unstable surface. Columns are supported only by anchoring in floor.
- 4. Shim each column base 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 85 ft-lbs. Shim thickness MUST NOT exceed 1/2". Adjust the column extensions plumb.
- 5. If anchors do not tighten to 85 ft-lbs. installation torque, replace concrete under each column base with a 4' x 4' x 6" thick 3,000 PSI minimum concrete pad keyed under and flush with the top of existing floor. Let concrete cure at least 30 days before installing lifts and anchors.



5.4 ANCHORING TIP SHEET

- 1. Use a concrete hammer drill with a carbide tip, solid drill bit the same diameter as the anchor, 3/4". (.775 to .787 inches diameter). **Do not use excessively worn bits or bits which have been incorrectly sharpened.**
- 2. Keep the drill perpendicular to the concrete 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 for anchor bolt completely through the concrete. If an error is made during the installation of these anchors, this will allow for the anchor bolt to be driven down into the ground, so that a new anchor may be installed in place (fig.1).
- 5. Be sure to clean all dust from hole. (fig. 2).
- 6. Place a flat washer and hex nut over threaded end of anchor, leaving approximately 1/4 inch of thread exposed above the nut (fig. 3). Carefully tap anchor into the concrete until nut and flat washer are against base plate. Be sure to only tap the top of the anchor and not the nut. This could cause damage to the threads of the anchor.
- 7. Tighten the nut (fig. 4) to **85 ft-lbs** of torque.

6-INSTALLATION INSTRUCTIONS

PLEASE READ THIS INSTRUCTION BEFORE STARTING TO OPERATE THE LIFT.

Check for ceiling clearance to confirm the lift can be set up in your bay.

- 1) After unloading the lift, place it near the intended installation location.
- Remove the shipping bands, packing materials and the power unit from the lift. Carefully remove the parts from the column inside. Unbolt the column from the shipping brackets.
- Position the columns facing each other 145" (3683 mm) between outside base plates.
 Square the columns by measuring from corner points on base plates (within 1/4"). (Fig. 1) NOTE: The power unit column is referred to as the main side column and the non-power unit column is referred to as the offside column.
- 4) Using a 3/4" diameter concrete drill, drill the anchor holes in the main side column, installing anchors as you go. **NOTE:** Remember to place washer and nut over threads, leaving approximately **1/4"** of threads exposed above the nut. Use a block of wood or rubber mallet to drive anchor bolts in. Drill to a minimum depth of 4" to insure maximum holding power.

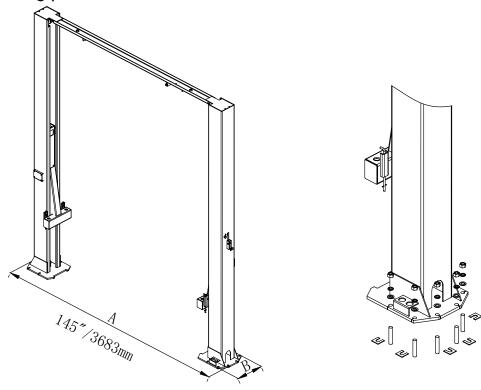


Fig. 1 Fig. 2

5) Using a level, check column for side-to-side plumb and front-to-back plumb. If needed, use horseshoe shims provided by placing shims underneath the base plate and around the anchor bolt. This will prevent bending the column base plate (Shim thickness should not exceed 1/2"). Thread the 3/4" nuts onto the anchor bolts down to the column base plate, however do not tighten at this time. (Fig.2) **NOTE: Do not use impact wrench.**

Using a tape measure, measure from front corner of the base to the opposite front 6) corner to ensure columns are square.

- Attach the ceiling safety bar and switch to the 7) overhead cross beam. (Fig. 11)
- Install the overhead cross beam on the column 8) tops. (Fig. 3)
- After overhead beam is assembled, drill and 9) anchor offside column as described in steps 4 and 5. Again check the plumb for both columns carefully. Tighten all the anchor bolts to 85 ft-lbs. of torque for each column. NOTE: Do not use impact wrench.

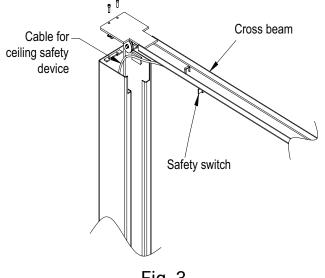
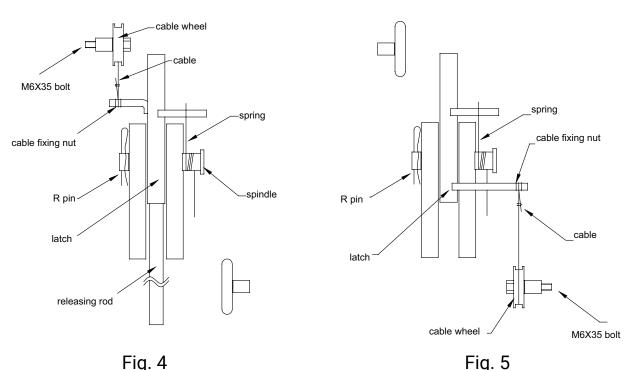


Fig. 3

10) Connect the safety release cable between the two latches. Check that the tension of the cable is tight. Pull the single point release handle several times and check the tension again by making sure both latches release at the same time when the handle is pulled. (Fig. 4 & Fig. 5)

Mainside Column Locking Device

Offside Column Locking Device



- 11) Mount the power unit to the mounting bracket located on the main column using the four supplied 5/16" nuts and bolts.
- 12) Install the 90-degree hydraulic fitting on the power unit. Connect the short hydraulic hose to the "T" fitting at the base of cylinder in the mainside column and to the power unit. Then run the long hose through the columns and overhead cross beam. Connect the hose to the fitting on the base of each cylinder. (Fig. 6-7 and diagram Fig. 2)

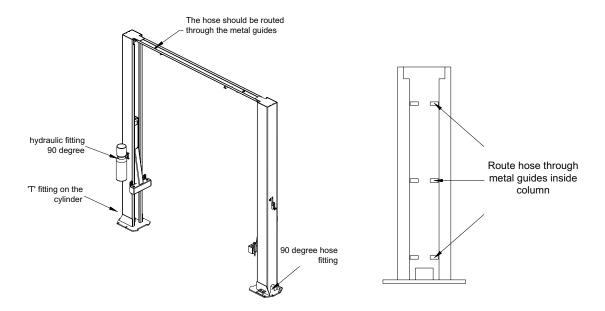


Fig. 6 Fig. 7 WARNING: BE SURE THE HOSE WILL NOT BE TOUCHED BY ANY MOVING PARTS INSIDE THE COLUMNS.

raise up the carriages

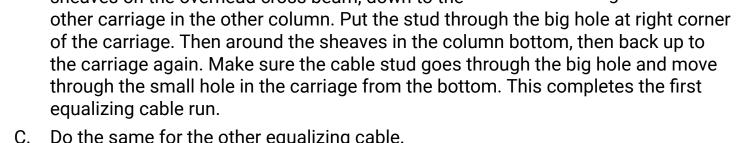
to 28" high and lock

both of them

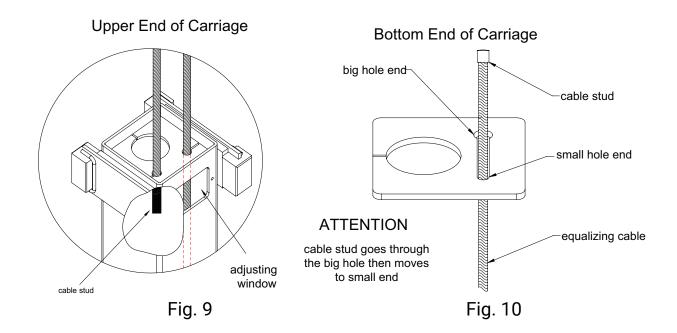
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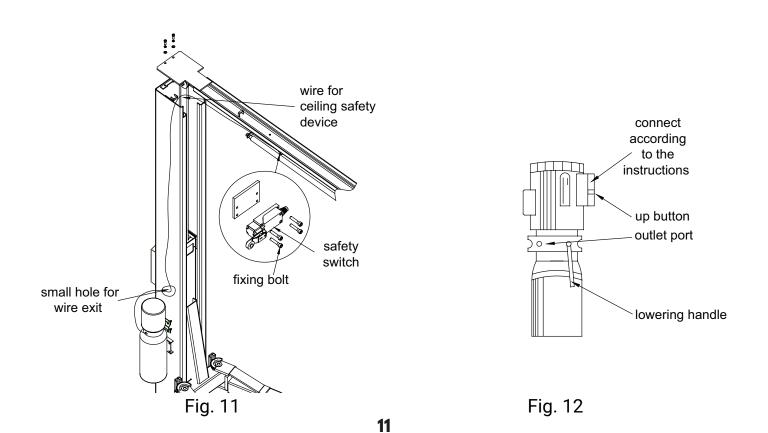
- 13) Raise the carriages (approximately 28" from the ground) so that they are resting on the first safety lock position (Fig. 8). Connect the equalizing cables as shown in the cable diagram. NOTE: (See Fig. 9-10 and diagram Fig. 2)
 - First put one cable bolt end through the left hole in the upper end of the carriage. Lock this end by the nut. Let 1/2" of thread pass through the nut.
 - 2. Pull the other end of the cable up, around the B. Fig. 8 sheaves on the overhead cross beam, down to the of the carriage. Then around the sheaves in the column bottom, then back up to the carriage again. Make sure the cable stud goes through the big hole and move through the small hole in the carriage from the bottom. This completes the first
 - Do the same for the other equalizing cable. C.



WARNING: MAKE SURE THE CARRIAGES ARE SET ON THE SAFETY LOCK POSITIONS AT THE SAME HEIGHT.



- 14) Adjust the carriage cable tension. This is accomplished by tightening the lock nut under the upper end of each carriage through the adjusting window. **Tighten the nut on the side that you wish to raise.** Adjust each cable to approximately 1/2" side-to-side play. When the cables are adjusted properly, the locks will click simultaniously as the lift is raised.
- 15) Install the swing arms on the carriages using the included 4 pins (35). Adjust the lifting arm gear locks on each swing arm. Check for proper engagement of the arm lock the rack on the lock should fully engaged in the gear on the arm.



- 16) Remove the fill cap from the power unit and fill the oil tank reservoir. To fill the oil tank reservoir, the lift must be completely lowered. Fill the oil tank with a premium quality ISO-32, or AW-46 Hydraulic Oil.
- 17) Using the cable provided connect the ceiling safety switch to power unit. Be sure that the cable should connect to the two normal closed terminals of the switch. (Fig.11)
- 18) Make the Electrical hookup to the power unit: 220V Single phase. It is recommended that a 220 Volt, 30 Amp twist lock plug be installed in the power line just ahead of the power unit. Use wire capable of supporting a 30-amp circuit. (Fig. 12 and diagram Fig. 5)

WARNING: THE WIRING MUST COMPLY WITH LOCAL CODE. HAVE A CERTIFIED LICENSED ELECTRICIAN MAKE THE ELECTRICAL HOOK-UP TO THE

lubricate the

sheaves and cables

lubricate the

inner corners

lubricate the sheaves

lubricate the

cable and

latch

POWER UNIT. PROTECT EACH CIRCUIT WITH TIME DELAY FUSE OR CIRCUIT BREAKER; 208V-230V SINGLE PHASE. 50HZ/60HZ 30 AMP.

- 19) Lubricate the cables, sheaves, release latch and inner corners in the columns (Fig.13). Install the single hand releasing latch covers (23).
- 20) Check again for the plumb of the columns. The distance at the bottom and at the top position between the columns should be equal. Check the height of the lifting arms. The difference should be within 1".
- 21) Do not place any vehicle on the lift at this time. Read the operation instructions (pg 14-16) and cycle the lift Fig. 13 up and down several times to ensure safety latches click together and all air is removed from the system. Ensure all hydraulic fittings are tight and not leaking. To lower the lift, the safety latch releases must be manually released. Latches will automatically reset once the lift ascends approximately 17" from base. **NOTE:** If latches click out of sync, tighten the cable on the one that clicks first.

WARNING: DO NOT PERFORM ANY MAINTENANCE OR INSTALLATION OF ANY COMPONENTS WITHOUT FIRST ENSURING THAT ELECTRICAL POWER HAS BEEN DISCONNECTED AT THE SOURCE OR PANEL AND CANNOT BE REENERGIZED UNTIL ALL MAINTENANCE AND/OR INSTALLATION PROCEDURES ARE COMPLETED.

DANGER: DO NOT RUN POWER UNIT WITHOUT FLUID. DAMAGE TO PUMP CAN OCCUR. THE POWER UNIT MUST BE KEPT DRY. DAMAGE TO POWER UNIT CAUSED BY WATER OR OTHER LIQUIDS SUCH AS DETERGENTS, ACID ETC., IS NOT COVERED UNDER WARRANTY.

7-OPERATION INSTRUCTIONS

WARNING: LIFT OPERATION BY TRAINED AUTHORIZED PERSONNEL OVER 18 YEARS ONLY. APPLY THE PARKING BRAKE AFTER POSITIONING THE VEHICLE ON THE LIFT. DO NOT ALLOW ANYONE TO STAY IN LIFT AREA DURING RAISING AND LOWERING CYCLES. CLOSELY WATCH THE VEHICLE AND THE LIFT DURING RAISING AND LOWERING CYCLES. OBSERVE THE RATED LOAD CAPACITY AND LOAD DISTRIBUTION. DO NOT ALLOW ANYONE TO CLIMB ON LIFT OR STAY INSIDE VEHICLE. AFTER RAISING THE VEHICLE FRAME 6", STOP AND CHECK ADAPTERS FOR SECURE CONTACT. PERFORM BUMPER TEST. MAKE SURE THE VEHICLE DOORS ARE CLOSED DURING RAISING AND LOWERING CYCLES.

7.1 DEFECTS / MALFUNCTIONS

WARNING: IN CASE OF DEFECTS OR MALFUNCTIONS SUCH AS JERKY LIFT MOVEMENT OR DEFORMATION OF THE SUPERSTRUCTURE, SUPPORT OR LOWER THE LIFT IMMEDIATELY. CONTACT QUALIFIED SERVICE PERSONNEL.

7.2 CONTROLS

7.2.1 UP CONTROL



Once the up button is actuated, the lift moves up until the button is released or the limit stop is reached.

7.2.2 SAFETY LOCK CONTROL

The safety latch mechanism will "Trip Over" as the lift raises and drop into each safety latch stop. To lock the lift you must press the lowering handle on the power unit (Fig. 1) to relieve the hydraulic pressure and let the safety locks engage into a level locked position.

WARNING: PAY CLOSE ATTENTION WHEN SETTING THE LOCKS. THE LOCKS MUST BE A LEVEL MATCH SET IN ORDER TO AVOID A VEHICLE TILT.

WARNING: ALWAYS LOCK THE LIFT BEFORE GOING UNDER THE VEHICLE.
NEVER ALLOW ANYONE TO GO UNDER THE LIFT WHEN RAISING OR LOWERING.

NOTE: IT IS NORMAL FOR AN EMPTY LIFT TO LOWER SLOWLY - IT MAY BE NECESSARY TO ADD WEIGHT.

7.2.3 LOWERING CONTROL

Press the power button to raise the carriages high enough up off the locks so that they can be disengaged. Press down on the lock release lever located on the power unit column to manually disengage the both locks.



Fig. 1



WARNING: ALWAYS RELEASE BOTH SIDES.

Press the lowering handle Fig. 1 until the lift is completely lowered.

7.3 OPERATION

WARNING: FAILURE TO OPERATE THE LIFT ACCORDING TO THIS MANUAL MAY CAUSE DAMAGE TO THE LIFT, PROPERTY DAMAGE AND/OR PERSONAL INJURY.

- 1. Before driving a vehicle onto the lift make sure the lift is fully lowered. Before driving a vehicle onto the lift, position the lift arms outward. Do not hit or run over the lifting arms, as this could damage the vehicle and/or lift. Make sure the lift is fully lowered before moving the vehicle over the lift. **NOTE:** It is recommended to swing both arms outward pointing toward the front of the lift prior to loading a vehicle onto the 10000AC-D.
- 2. Drive the vehicle over the lift while keeping the vehicle parallel with the lift and aligning the center of gravity of the vehicle with the center of the lift. **NOTE:** The "Center of Gravity" (COG) of the vehicle is the balance point at which there is equal weight in front of and behind the COG, and equal weight on both sides of the COG. The COG is not necessarily the dimensional center of the vehicle, but is often slightly toward the engine from the dimensional center of the vehicle.
- 3. Turn off the vehicle's engine and engage the parking brake of the vehicle.
- 4. Read the vehicles owner's manual to identify the recommended vehicle lifting points.
- 5. Prepare the work area according to this manual. Move the lifting arms inward, and position the rubber pads to contact with the vehicle manufacturer's recommended lifting points.

IMPORTANT: PLACE THE FOUR RUBBER PADS UNDER EDGE OF VEHICLE AT THE FOUR JACK POINTS.

6. Once the lifting arms have been positioned under the vehicle lifting points, operate the power switch to make contact and lift the vehicle slightly. Test to make sure the vehicle is well balanced and the contact between the rubber pads and vehicle lifting points are secure by performing the "BUMPER TEST." (pg. 2) Then proceed to lift the vehicle to the desired height.

- 7. **WARNING:** Do not lift the vehicle if you cannot establish secure and level lifting points. Do not use sub-standard shims or other devices in place of approved and recommended rubber pad adapters. Never use the lift without the rubber pads in place on each plate and in contact with the lifting points of a vehicle.
- 8. Press up button and raise vehicle to desired height. Do not go under vehicle until load rests on level safety locks.
- 9. While lifting the vehicle a clicking sound should be noticeable which indicates the safety mechanism is operating. If this sound is not heard, immediately cease using the lift and call an authorized service agent.
- 10. When lift reaches maximum height, a limit switch will come into operation and stop the lift. When lift has stopped, press and hold the lowering handle (Fig. 1) until load rests on level safety locks.
- 11. Once the repair work to the vehicle is complete, make sure to remove all tools, safety jack stands, and materials from under the vehicle and lift. Also, make sure the work area is clear and it is safe to lower the vehicle.
- 12. Lower vehicle by pressing the Up button to disengage the safety locks. Pull both latch releases to release (Fig. 2) the safety locks then press the lowering handle (Fig. 1) until the lift is completely lowered.
- 13. Move the lifting arms outward, out of the path of the vehicle. Clear all bystanders, and any objects from work area and direction of vehicle.
- 14. Disengage the vehicle parking brake. Start the vehicle's engine, and drive the vehicle off the lift slowly and carefully.

WARNING: THE OPERATOR MUST BE TRAINED AND AUTHORIZED TO OPERATE THE LIFT.

WARNING: DO NOT GO UNDER VEHICLE UNDER ANY CIRCUMSTANCES WHILE VEHICLE IS BEING RAISED OR LOWERED.

WARNING: LOAD MUST BE EVENLY DISTRIBUTED BETWEEN BOTH LIFTING PLATFORMS. IF LOAD IS UNBALANCED, REPOSITION VEHICLE. DO NOT LOWER ON TO LOCKS AT DIFFERENT HEIGHTS.

8-MAINTENANCE



WARNING: DISCONNECT THE POWER BEFORE SERVICING THE LIFT.

IMPORTANT: THE MAINTENANCE INTERVALS INDICATED BELOW APPLY TO AVERAGE WORKSHOP USE. THE LIFT SHOULD BE INSPECTED MORE FREQUENTLY FOR SEVERE USE APPLICATIONS.

8.1 MAINTENANCE SCHEDULE

It is important to keep the lift clean, dry, and well maintained by establishing a periodic preventive maintenance program to ensure trouble-free operation and long service life.

8.1.1 DAILY

- 1. Check safety locking mechanism is functioning correctly.
- 2. Check safety lock audibly and visually while in operation.
- 3. Check safety latches for free movement and full engagement with rack.
- 4. Inspect the condition of rubber lifting pads and replace as necessary if worn or torn.
- 5. Check hydraulic connections, and hoses for leakage.
- 6. Check chain connections Bends, cracks and looseness.
- 7. Check for frayed cables in both raised and lowered positions.
- 8. Check snap rings at all rollers and sheaves.
- 9. Check bolts, nuts, and screws and tighten.
- 10. Check wiring & switches for damage.
- 11. Keep base plate free of dirt, grease or any other corrosive substances.
- 12. Check floor for stress cracks near anchor bolts.
- 13. Check swing arm restraints.

8.1.2 WEEKLY

1. Check anchor bolts torque to 85 ft-lbs for the 3/4" anchor bolts.

NOTE: DO NOT USE IMPACT WRENCH.

- 2. Check floor for stress cracks near anchor bolts.
- 3. Check hydraulic oil level.
- 4. Check and tighten bolts and nuts, and screws.
- 5. Check cylinder pulley assembly for free movement or excessive wear on cylinder yoke or pulley pin.
- 6. Check cable pulley for free movement and excessive wear.

8.1.3 MONTHLY

- 1. Check safety mechanism operation.
- 2. Check condition of shafts, shaft locks and bushings.
- Check overall cleanliness.

8.1.4 BIMONTHLY

- 1. Check condition of extensions and lubricate.
- 2. Check oil leaks from cylinders.
- 3. Check oil leaks at pipe joints.

8.1.5 YEARLY

Service and safety inspection on the lift must be performed by a competent person. This inspection must be recorded. If the 12 month service and safety inspection is not performed, the warranty is null and void.

- 1. Lubricate chain
- 2. Grease rub blocks and column surface contacting rub blocks.
- 3. Change the hydraulic fluid. A good maintenance program makes it mandatory to keep hydraulic fluid clean. Operating temperature, type of service, contamination levels, filtration, and chemical composition of fluid should be considered. If operating in harsh or dusty conditions, a shorter interval may be required.

THE FOLLOWING ITEMS SHOULD ONLY BE PERFORMED BY A TRAINED MAINTENANCE EXPERT.

- · Replace hydraulic hoses.
- · Replace chains and rollers.
- · Replace cables and sheaves.
- Replace or rebuild air and hydraulic cylinders as required.
- · Replace or rebuild pumps / motors as required.
- Check hydraulic and air cylinder rod and rod end (threads) for deformation or damage.
- Check cylinder mount for looseness and damage.

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

8.1.6 EVERY OTHER YEAR

Hydraulic oil should be replaced.

IMPORTANT: AFTER CLEANING WORKSHOP FLOOR OR LIFT, TO MAINTAIN HOIST EFFICIENCY WE ADVISE TO LUBRICATE LIFTING ARM LOCKING MECHANISM, AND SAFETY LOCKING MECHANISM. CHECK SAFETY LOCKING MECHANISM IS FUNCTIONING CORRECTLY.

8.2 MAINTENANCE BY OPERATOR

All moving parts have been lubricated at the factory and should be re-lubricated before the first use and at least once every six months to prevent damage.

8.2.1 HYDRAULIC SYSTEM

- 1. Check the fluid level with the lift fully lowered and add fluid as required. Use premium quality ISO-32, AW-32, or AW-46 hydraulic oil.
- 2. Visually check all hydraulic hoses and connections for tightness before each use to ensure proper working condition.
- 3. Lightly oil the cylinder rods at least once every six months or when they become dry.



FIG. 3

8.2.2 GREASING POINTS

SLIDE TRACKS:

- The carriage assembly slide tracks should be greased every six months (or more frequently in case of noise generation).
- Slightly grease the slide tracks over their whole length using a brush.

8.2.3 OPERATION AND WEAR CHECKS

- 1. Examine lift for structural cracks, bends, or other signs of damage prior to each use. Do not use this product if worn or damaged.
- 2. Check that the safety locking mechanism is functioning correctly.
- 3. Check that the safety lock is audibly and visibly operating correctly.
- 4. Check the floor for stress cracks near the anchor bolts.

8.2.4 LIFT STABILITY

- 1. Every six months check the nuts of all bolts for correct installation torque.
- 2. Retighten them as required. NOTE: DO NOT USE AN IMPACT WRENCH.

8.3 CLEANING

DANGER: DO NOT USE HIGH PRESSURE / STEAM JET CLEANERS OR CAUSTIC CLEANING AGENTS.

- 1. Periodically wash off aggressive substances and treat the lift with oil or wax spray.
- 2. Repair the damage to the paintwork immediately to prevent corrosion.

9-TROUBLESHOOTING

1. Motor does not run:

- A. Breaker or fuse blown.
- B. Motor thermal overload tripped. Wait for overload to cool.
- C. Faulty wiring connections......Call electrician for service.
- D. Defective up button.....Call electrician for service.

2. Motor runs but will not raise:

- A. A piece of trash is under the check valve. Push handle down and push the up button at the same time. Hold for 10-15 seconds. This should flush the system.
- B. Check the clearance between the plunger valve of the lowering handle. There should be 1/16".
- Remove the check valve cover and clean ball and seat.
- D. Oil level too low. Oil level should be just under the vent cap port when the lift is in the lowered position.

3. Oil blows out breather of power unit:

- A. Oil reservoir overfilled.
- B. Lift lowered too quickly while under a heavy load.

4. Motor hums and will not run:

- A. Impeller fan cover is dented. Take off and straighten.
- B. Faulty wiring.....Call electrician.
- C. Bad capacitor.....Call electrician.
- D. Low voltage.....Call electrician.
- E. Lift overloaded.....Reduce weight.

5. Lift jerks going up and down: Air in hydraulic system. Raise lift all the way to top and return to floor; Repeat 4-6 times. Do not let this overheat power unit.

6. Oil leaks:

- A. Check the power unit: If the power unit leaks hydraulic oil around the tankmounting flange, check the oil level in the tank. The level should be two inches below the flange of the tank. Check with a screwdriver.
- B. Check the rod end of the cylinder: If the rod seal of the cylinder is out, rebuild or replace the cylinder.
- C. Breather end of the cylinder: If the piston seal of the cylinder is out, rebuild or replace the cylinder.

7. Lift makes excessive noise:

- A. Leg of the lift is dry and requires grease.
- B. Cylinder pulley assembly or cable pulley assembly is not moving freely.
- C. May have excessive wear on pins or cylinder yoke.

10-OWNER/EMPLOYER RESPONSIBILITIES

The owner/employer:

Shall establish procedures to periodically maintain, inspect and care for the lift in accordance with the manufactures recommended procedures to ensure it's continued safe operations.

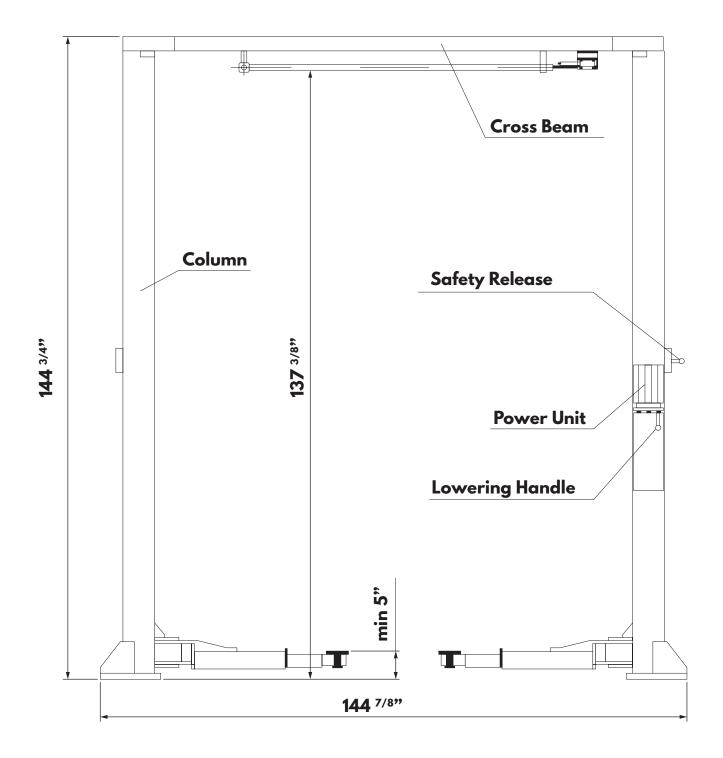
Shall provide necessary lockout / tag outs of energy sources per ANSI Z244.1 - 1982 before beginning any lift repairs. Shall not modify the lift in any manner without prior written consent of the manufacturer.

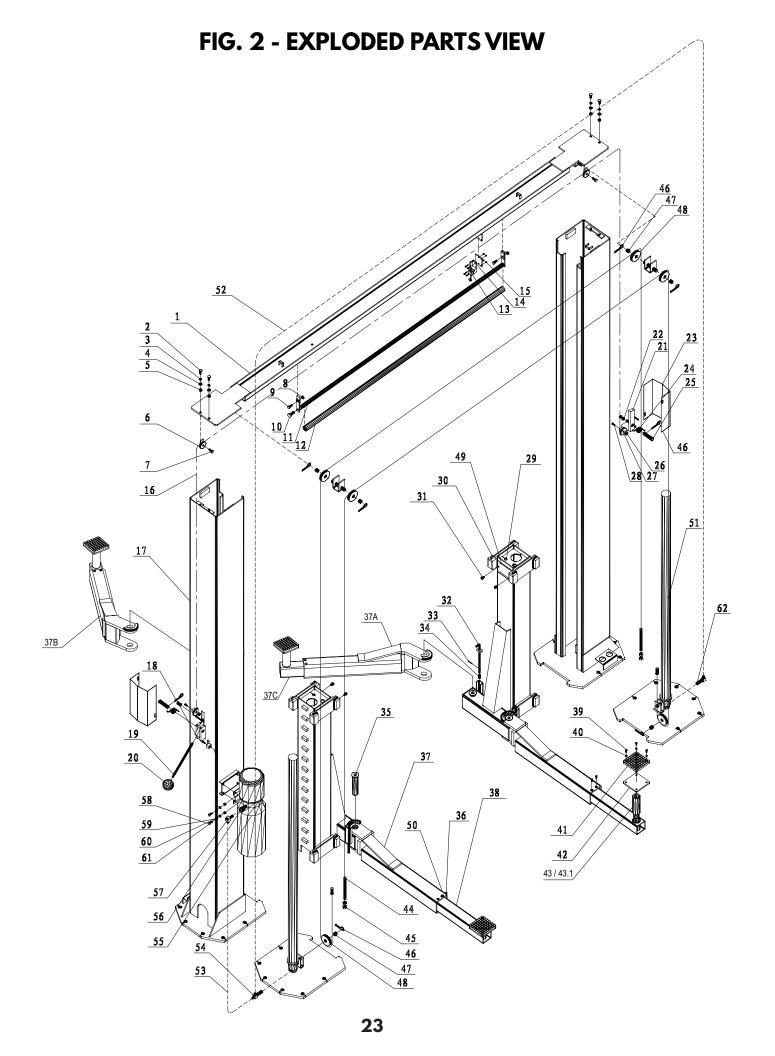
Shall display this manual or copy supplied with the lift in a conspicuous, dry location in the lift area convenient to the operator.

Shall insure that lift operators are instructed in the safe proper use and operation of the lift using the manufacturer's instructions outlined within this manual supplied with the lift.

11-DIAGRAMS (FIG. 1-5)

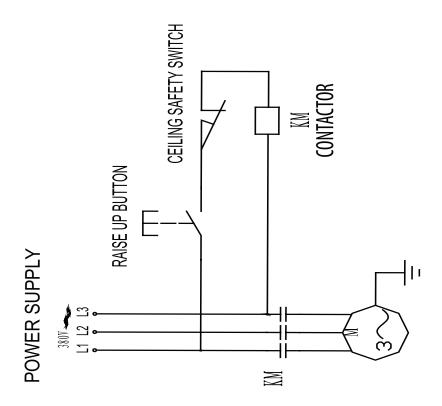
FIG. 1 - MAIN COMPONENTS





No.	Description	QTY	No.	Description	QTY
1	Cross beam parts	1	35	Spindle	4
2	Hex bolt	4	36	Cross screw	8
3	Flat washer	4	37	Swing Arm Straight Outer	2
4	Spring washer	4	37A	Swing Arm (Right Outer)	1
5	Self-lock nut	4	37B	Swing Arm (Left Outer)	1
6	Safety idler wheel	2	37C	Swing Arm Inner	2
7	Inner Hex bolt	2	38	Swing Arm Straight Inner	2
8	Self-lock nut	2	39	Inner Hex bolt	16
9	Hex bolt	1	40	Self-lock nut	16
10	Hex bolt	1	41	Rubber pad	4
11	Pole	1	42	Swing washer	4
12	Safety Bar Pad	1	43	5.5" Drop In Height Adapters	4
13	Cross screw	2 each	43.1	2.75" Drop In Height Adapters	4
14	Switch	1	44	Cable	2
15	Nut	4	45	Hex nut	4
16	Safety cable	1	46	Spring board	8
17	Column parts	2	47	Bronze spindle	6
18	Safety board	1	48	Idler wheel	6
19	Handle	1	49	Board	4
20	Handle ball	1	50	Block	4
21	Safety board	1	51	Hydraulic cylinder	2
22	Hex nut	4	52	Hydraulic hose	1
23	Cover	2	53	Hydraulic hose	1
24	Torsion Spring	2	54	T fitting	1
25	Safety spindle	2	55	Hydraulic pump	1
26	Hex lock nut	4	56	Elbow outside fitting	1
27	Safety idler wheel	2	57	Hydraulic Extension	1
28	Inner Hex bolt	4	58	Hex bolt	4
29	Carriage	1	59	Flat washer	4
30	Rubber block	4	60	Spring washer	4
31	Cross screw	2	61	Nut	4
32	Bolt	2	62	Elbow fitting	1
33	Flex column bolt	2			
34	Spring	2			

FIG. 3 - ELECTRICAL



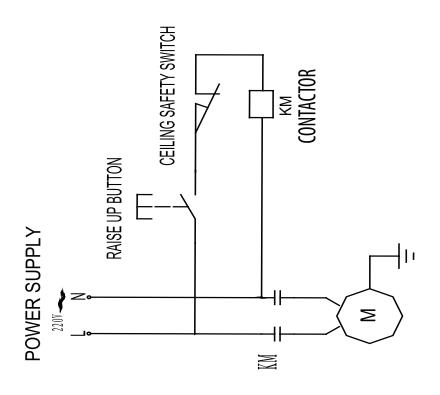
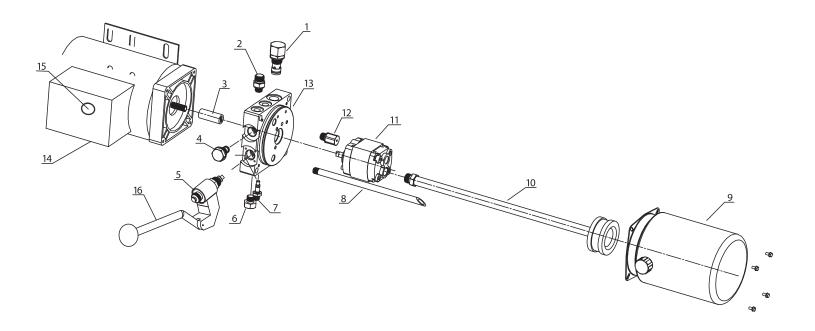
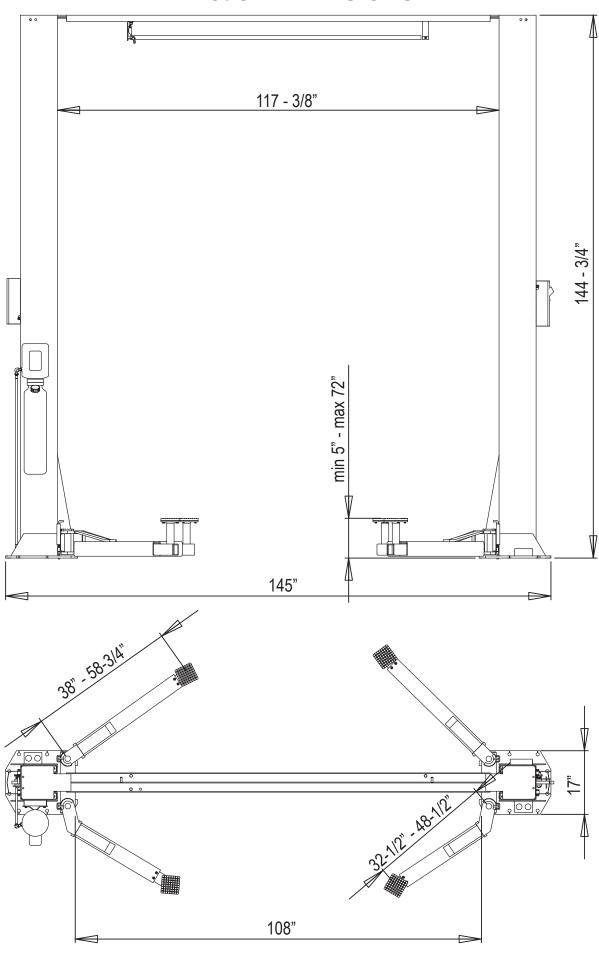


FIG. 4 - POWER UNIT



No.	Name	Qty
1	Overflow valve	1
2	Hose fitting	1
3	Annectent spindle	1
4	Check valve	1
5	Lowering valve	1
6	Bolt	1
7	Throttle valve	1
8	Escape oil valve	1
9	Oil box	1
10	Suction oil hose	1
11	Gear pump	1
12	Bumper valve	1
13	Valve seat	1
14	Motor	1
15	Power Control Button	1
16	Lowering Handle	1

FIG. 5 - DIMENSIONS





LIMITED WARRANTY

The **Titan 2 Post lifts, 4 Post lifts and Bridge Jacks** are backed by a standard **1-year** replacement parts warranty and a **5-year** structural warranty from the date of purchase, to the original purchaser only. The **1-year** replacement parts warranty covers power units, hydraulic cylinders, and all other assembly components such as, but not limited to: turn plates, slip plates, cables, chains, valves, switches etc. This does not cover normal wear items such as, but not limited to: rubber lifting pads and nylon slide blocks. Titan Elite model lifts have been discontinued but still qualify under the same terms as shown above.

Titan 2 Post Master Series, SL-6600 Scissor Lifts and PREMIER Series 2 Post Lifts are backed by a **2-year** replacement parts warranty and a **5-year** structural warranty from the date of purchase, to the original purchaser only. The **2-year** replacement parts warranty covers power units, hydraulic cylinders, and all other assembly components such as, but not limited to: valves, switches, capacitors etc. This does not cover normal wear items such as, but not limited to: rubber lifting pads and rubber arm pads.

Titan Master Series 2 post lifts includes lifetime warranty on nylon slide blocks.

Titan 4 Post Master Series are backed by a **2-year** replacement parts warranty and a **6-year** structural warranty from the date of purchase, to the original purchaser only. The **2-year** replacement parts warranty covers power units, hydraulic cylinders, and all other assembly components such as, but not limited to: turn plates, slip plates, cables, chains, valves, switches etc. This does not cover normal wear items such as, but not limited to: rubber lifting pads and nylon slide blocks.

Titan Master Series Aluminum Deck Kit are backed by a 90 day replacement.

Titan MRL-6000 Scissor lifts are backed by a standard **1-year** replacement parts warranty and a **5-year** structural warranty from the date of purchase, to the original purchaser only. The **1-year** replacement parts warranty covers power units, hydraulic cylinders, and all other assembly components such as, but not limited to: valves, switches, capacitors etc. This does not cover normal wear items such as but not limited to rubber lifting pads.

Titan ROT-4500 Rotisseries are backed by a standard **1-year** replacement parts warranty from the date of purchase, to the original purchaser only. The **1-year** replacement parts warranty covers components such as, but not limited to: hydraulic cylinders, caster assemblies, bearings etc. This does not cover normal wear items such as, but not limited to, mounting adapters.

Titan Standard Duty and Heavy Duty motorcycle lifts are backed by a standard **1-year** replacement parts warranty from the date of purchase, to the original purchaser only. The **1-year** replacement parts warranty covers power units, hydraulic cylinders, pneumatic cylinders, and all other assembly components such as, but not limited to: cables, caster wheels, valves, switches, wheel vises etc. This does not cover normal wear items such as, but not limited to: rubber wheel vise pads.

Titan Light Duty motorcycle lifts are warrantied for replacement parts only to the original purchaser for a period of **90 days** from the date of purchase. This **90 day** replacement parts warranty covers items such as, but not limited to: hydraulic cylinder, casters, pedal assemblies, wheel vises etc. This does not cover normal wear items such as, but not limited to: rubber wheel vise pads.

Titan Bulldog Moto Cradle Wheel Chock is warrantied for replacement parts, only to the original purchaser, for a period of **2-years** from the date of purchase.

XL Tool by Titan Wheel Service Machines and Helper Arm Assemblies are backed by a standard **1-year** replacement parts warranty from the date of purchase, to the original purchaser only. The **1-year** replacement parts warranty covers internal boards, motors, pneumatic cylinders, and all other assembly components such as, but not limited to: cabinet, switches, valves, fittings etc. This does not cover normal wear items such as but not limited to: rubber pads, jaw protectors, air hoses, quick nut assemblies.

Titan shop equipment products and accessories are warrantied for replacement parts only to the original purchaser for a period of **90 days** from the date of purchase. This **90 day** replacement parts warranty covers products such as but not limited to: EZ -Mover Jacks, Mini Jacks, tie down products, wheel service accessories, Bulldog Moto Cradle Wheel Chock accessories, dollies, stands, Multi-purpose Jacks, replacement power units purchased as stand alone units, etc.

Titan TJ1T, FJ2T, and FJ3T are warrantied for replacement parts only to the original purchaser for a period of 1 year from the date of purchase.

All non-serialized items will require proof of purchase in the form of a sales receipt from an authorized Titan Lifts dealer showing the date of purchase for any warranty consideration.

For all warranty considerations, Titan Marketing, LLC will supply replacement parts only during the warranty period. The original purchaser is responsible for all shipping, handling, and any labor charges incurred. Hydraulic/Pneumatic cylinders may qualify for exchange under warranty if reported within the first 30 days from date of sale. After the first 30 days from date of sale, a seal kit and installation instructions will be sent for cylinder repairs. All defective parts must be returned to Titan for inspection and examination. Any parts that are found to be defective will be replaced or repaired to proper working order. Other items not listed above may be considered general wear parts and therefore, will not be covered under warranty. These warranties do not extend to defects caused by ordinary wear, abuse, misuse, shipping damage, improper installation, voltage or lack of required maintenance. Titan Marketing, LLC is not to be held responsible for any failure that results from an accident, purchaser/operator abuse, neglect, or failure to operate products in accordance with instructions provided in the owner's manual(s) supplied. Damage caused by rain, excessive humidity, corrosive environments or other contaminants are not covered under warranty. THESE WARRANTIES DO NOT EXTEND TO ANY COSMETIC DEFECT NOT INTERFERING WITH EQUIPMENT FUNCTIONALITY OR ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE OR MALFUNCTION OF A TITAN MARKETING LLC PRODUCT OR THE BREACH OR DELAY IN PERFORMANCE OF THE WARRANTY.

WARRANTY REGISTRATION

In order to utilize the warranty on this Titan Lifts product, you must register your product with us. The simplest way to do this is to visit TITANLIFTS.COM/WARRANTIES and submit your information online. If you prefer to send your information through the mail, please fill out the form below and send this page to us at:

Titan Lifts PO Box 7069 Greenwood, IN 46142

EQUIPMENT MODEL:	SERIAL NUMBER:	
TYPE OF POWER UNIT:	OFFICE AND ADED	
DATE OF PURCHASE:		
PLACE PURCHASED:		
NAME:		
STREET:		
CITY, STATE, ZIP:		
PHONE:		
FMΔII ·	OPT OUT OF PROMOTION	10



NOTES

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NARNING 🕕



The warnings, precautions and instructions in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that the operator must supply common sense and examine caution factors when using this product to determine safety in all circumstances being used.



TITAN MARKETING, LLC

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