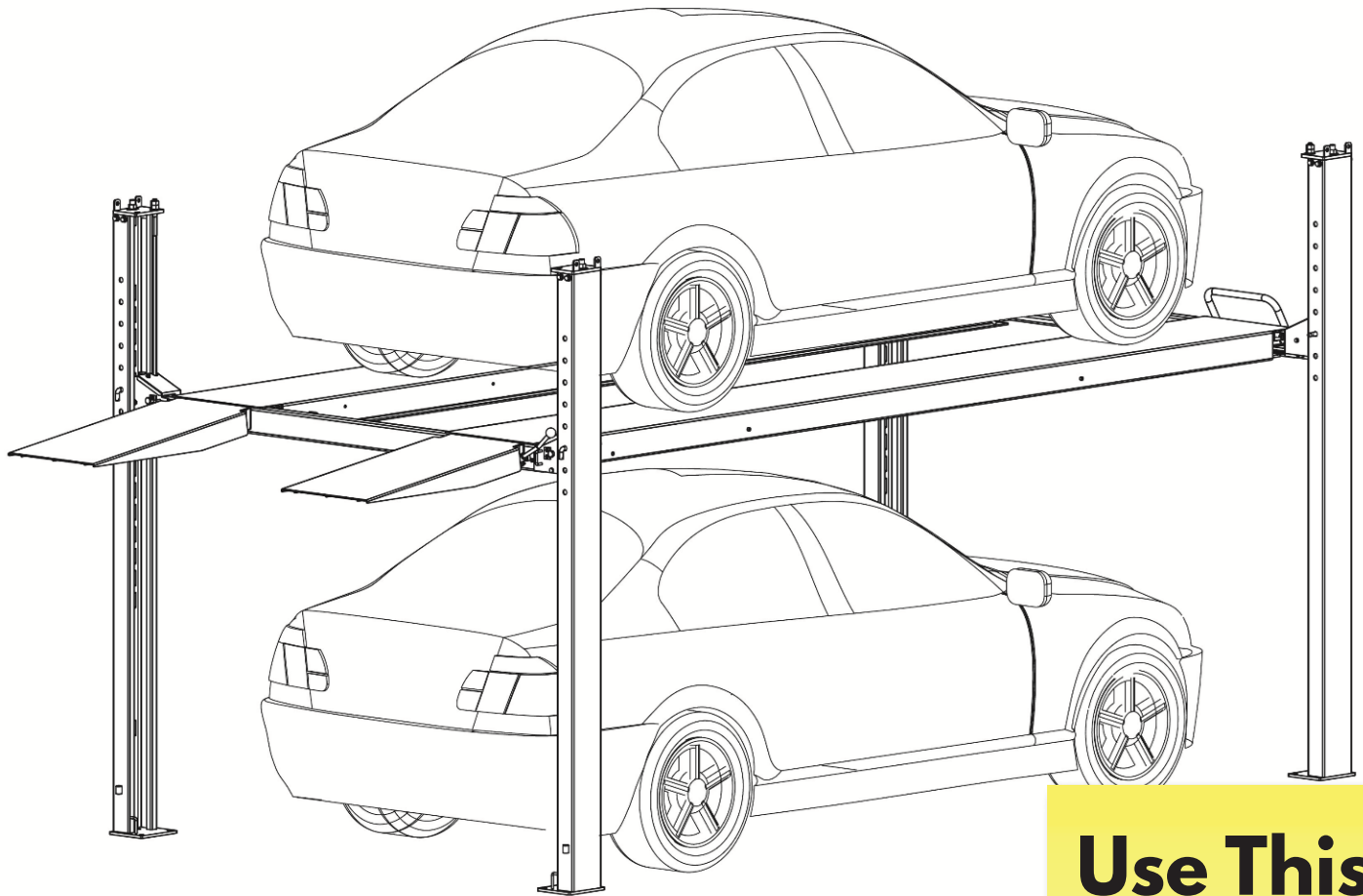




INSTALLATION, OPERATION & MAINTENANCE MANUAL



MODEL:

**SDTL-6000
6,000 LB CAPACITY 4-POST STACKER LIFT**

**Use This
Official
Manual**

! FOLLOW THIS MANUAL CAREFULLY TO ENSURE THE MACHINE 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 PLACE FOR FUTURE REFERENCE.



TITAN MARKETING, LLC

PO Box 7069 Greenwood, IN 46142
1.888.908-4826 FAX (317) 215.2770
www.titanlifts.com

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.

CONTENTS

1-SAFETY	1
1.1 INTRODUCTION	1
1.2 SAFETY INSTRUCTIONS FOR COMMISSIONING	1
1.3 OPERATION OF LIFTING PLATFORMS	1
1.4 SAFETY INSTRUCTIONS FOR MAINTENANCE	3
1.5 RISKS	3
2-DESCRIPTION	4
3-UNPACKING & SETUP	5
3.1 DELIVERY AND CHECK OF PACKAGES	5
3.2 LIFTING AND HANDLING	5
4 SPECIFICATIONS	6
5-INSTALLATION INSTRUCTIONS	10
6-OPERATION INSTRUCTIONS.....	16
6.1 DEFECTS / MALFUNCTIONS.....	16
6.2 CONTROLS.....	16
6.2.1 UP CONTROL	16
6.2.2 SAFETY LOCK CONTROL	16
6.2.3 LOWERING CONTROL	16
6.3 VEHICLE LOADING & TRANSPORTATION.....	16
7-MAINTENANCE.....	17
7.1 MAINTENANCE SCHEDULE	17
7.1.1 DAILY	17
7.1.2 WEEKLY	17
7.1.3 MONTHLY	18
7.1.5 YEARLY.....	18
7.2 MAINTENANCE BY OPERATOR	19
7.2.1 HYDRAULIC SYSTEM	19
7.2.2 GREASING POINTS	19
7.2.3 OPERATION AND WEAR CHECKS	19
7.2.4 LIFT STABILITY	19
7.3 CLEANING	19
9-TROUBLESHOOTING	20
11-PARTS DIAGRAMS.....	21
11.1 COLUMN ASSEMBLY.....	21
11.2 CROSSBEAM ASSEMBLY 1	23
11.3 CROSSBEAM ASSEMBLY 2	24
11.4 CYLINDER & RUNWAY ASSEMBLY	27

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.



IMPORTANT INFORMATION

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 OPERATION OF LIFTING PLATFORMS

- This lift is specially designed to be installed inside of enclosed trailers for transporting vehicles.
- Read this entire manual.
- Load should not exceed rated capacity for this lift – 6,000 lb
- ALWAYS ensure the safety locks are engaged, bolts are tight, and vehicle is safely secured before transporting any vehicles or standing underneath a raised vehicle.

- Only trained and authorized personnel over the age of 18 should operate the lift.
- 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.
- 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.
- 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: 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 crossbeams. Never override the manufactured lift controls. Only authorized personnel should be allowed in the lift area and the lift should only be operated by authorized and trained personnel.

2-DESCRIPTION

The model number covered in this manual is designated below:

SDTL-6000: 4-Post Interior Trailer Mounted Stacker Lift - 6,000 lb Capacity

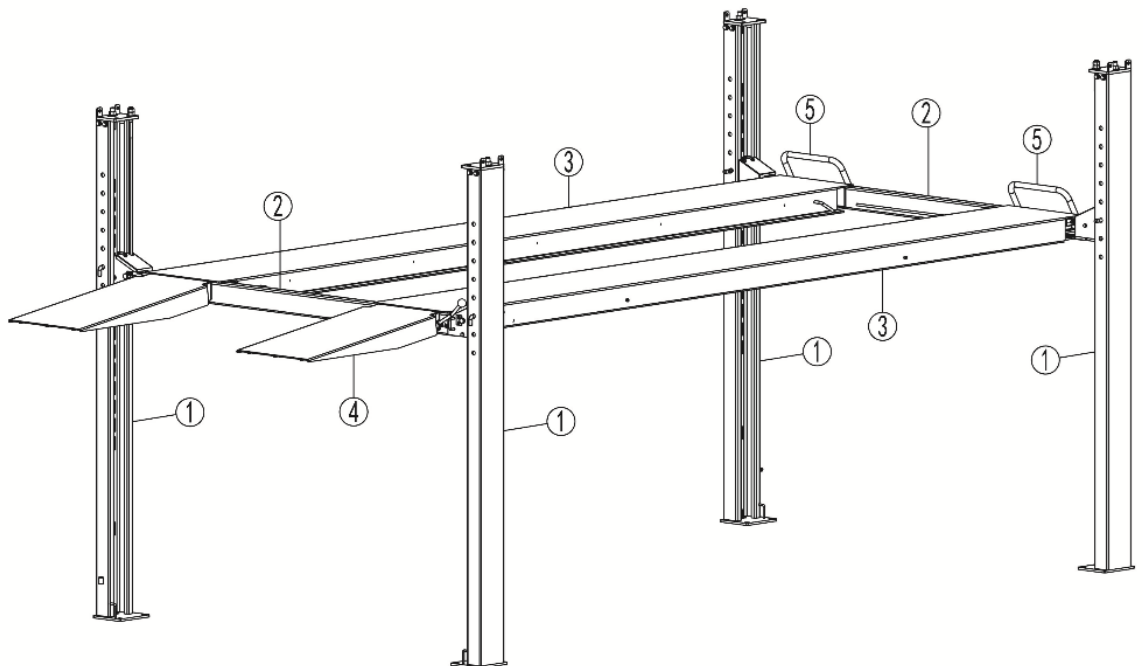
This lift is a 6,000 lb. capacity, 4-Post Trailer Lift.

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 have a professional trailer lift installer complete the installation process.

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.

No.	Description
1	Post
2	Crossbeam
3	Platform
4	Drive-on Ramp
5	Front Wheel Retainer



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 with caution to prevent any accidental injuries. Use caution when cutting the shipping bands, in the event that parts of the lift 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

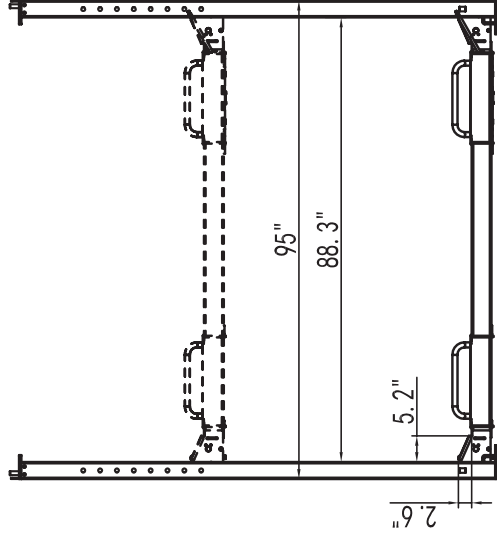
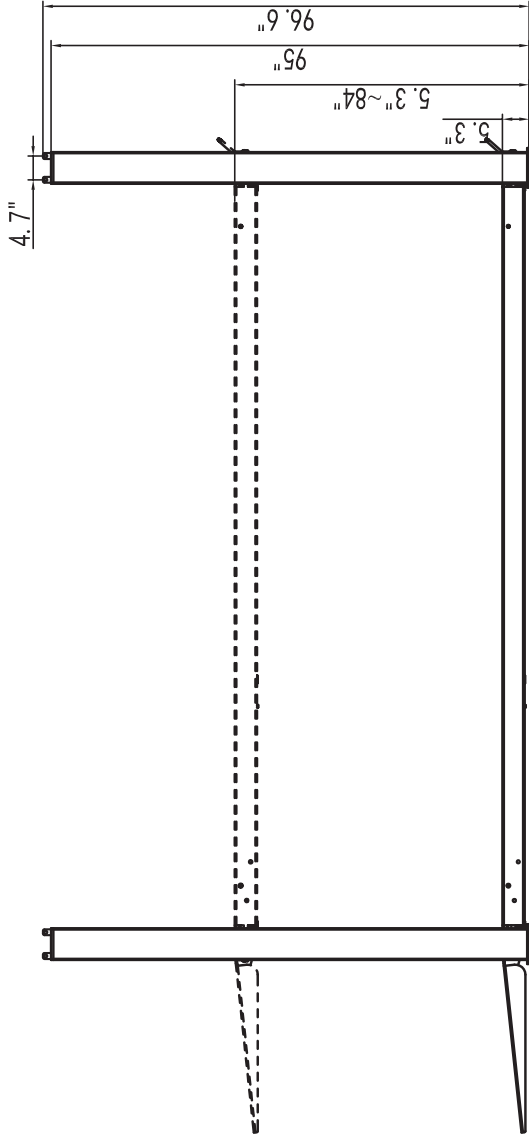
4 SPECIFICATIONS

Model	Capacity	Overall Length	Overall Height	Overall Width	Between Posts
SDTL-6000-13-95	6,000 lbs	195.5"	96.6"	95"	88.3"
SDTL-6000-14-95	6,000 lbs	207.5"	96.6"	95"	88.3"
SDTL-6000-16-95	6,000 lbs	231.5"	96.6"	95"	88.3"

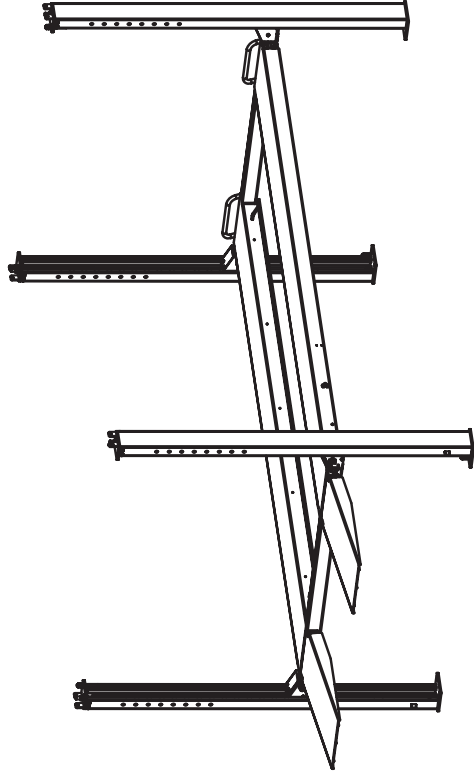
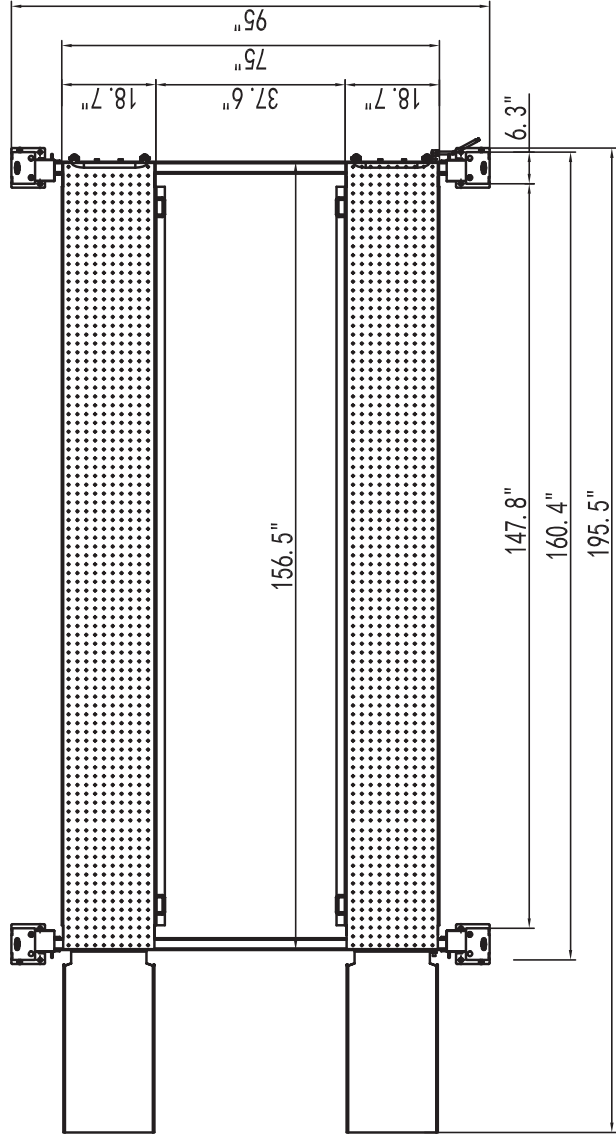
*Due to minor variances in the manufacturing process, dimensions in this manual may vary slightly from the finished product.

Model	SDTL-6000
Power type	Electric-hydraulic
Rated capacity	6,000 lb
Working pressure	≥20MPa
Power source	DC 12V±5%
Motor capacity	0.8kw
Hydraulic oil	8 quarts of AW32 hydraulic oil
Suitable working temperature	41°F - 104°F
Suitable working humidity	30-95%
Noise	< 75db
Storage temperature	-13°F ~ 131°F

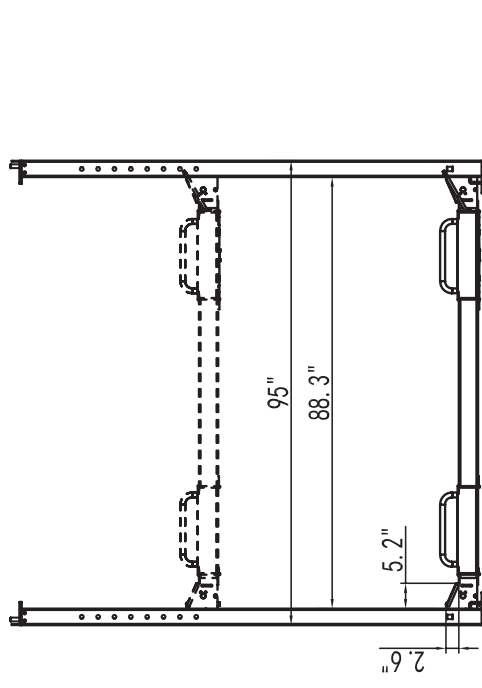
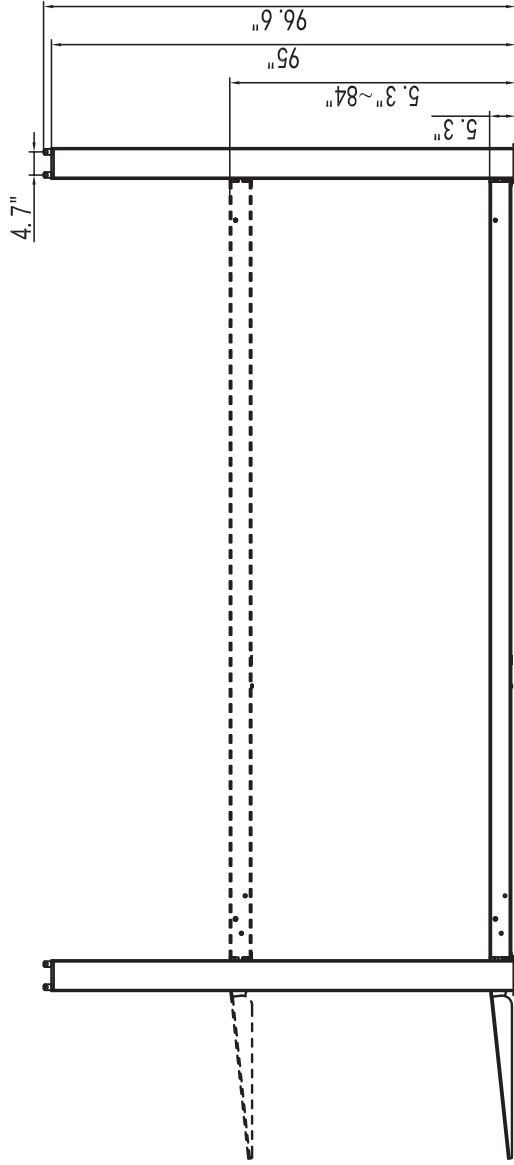
SDTL-6000-13-95



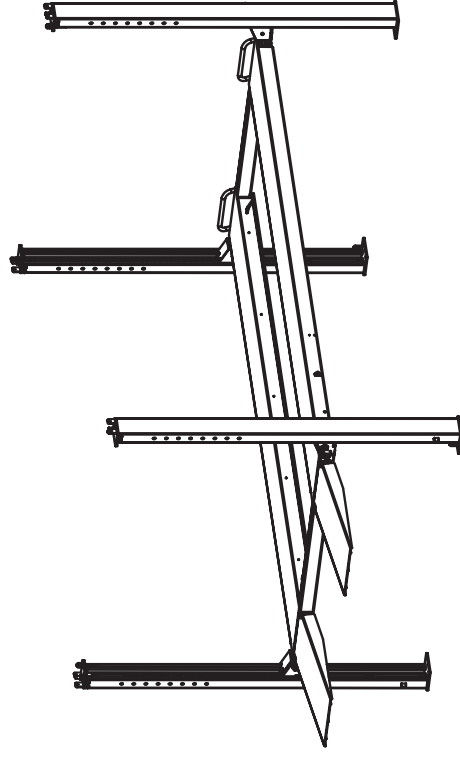
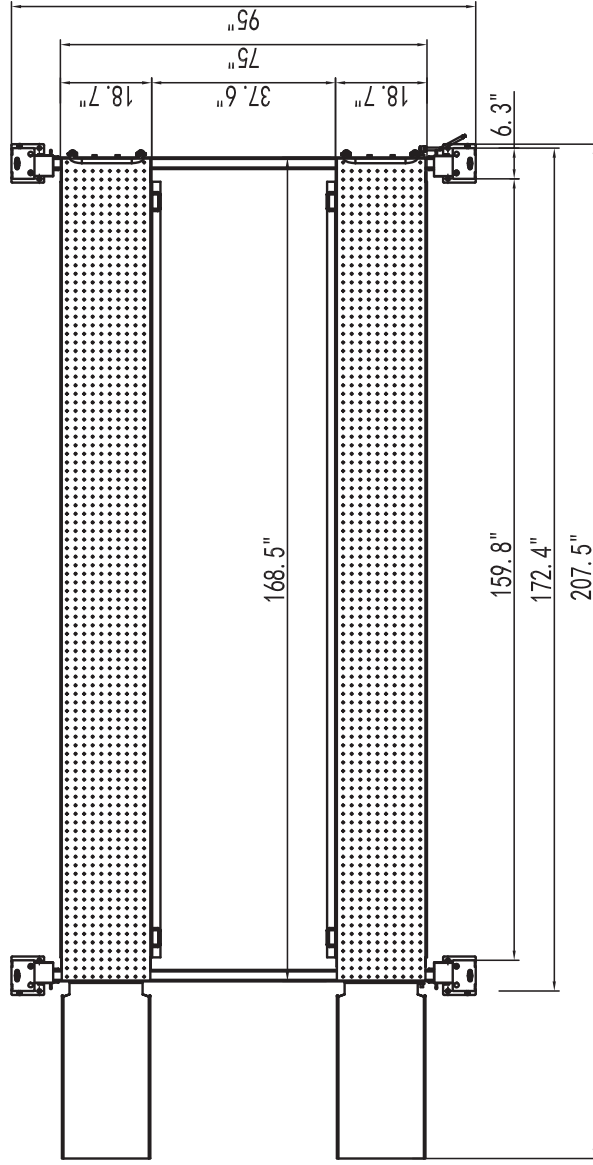
7



SDTL-6000-14-95



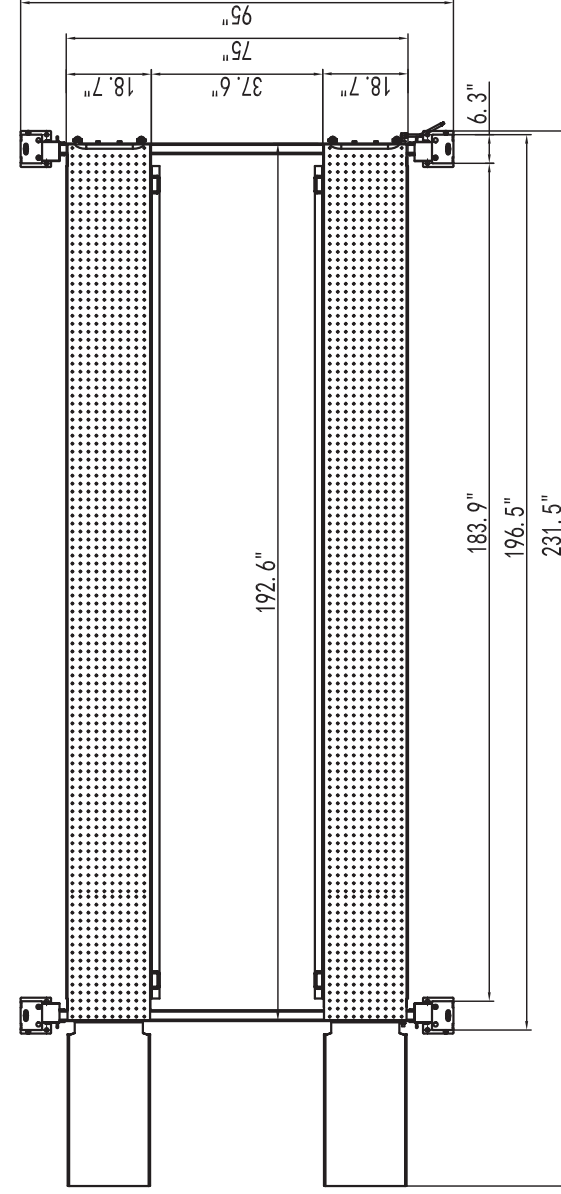
8



Technical drawing of a mechanical part, likely a bracket or support. The drawing shows a side view with the following dimensions:

- Overall width: 96.6"
- Width of the main body: 95"
- Width of the flange: 5.3" ~ 84"
- Thickness of the flange: 5.3"
- Height of the main body: 4.7"

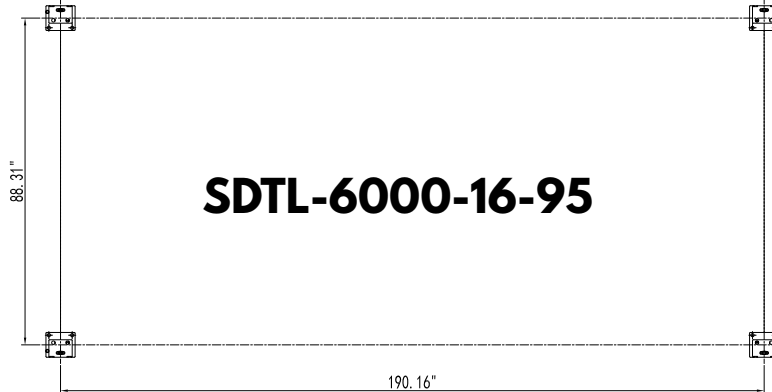
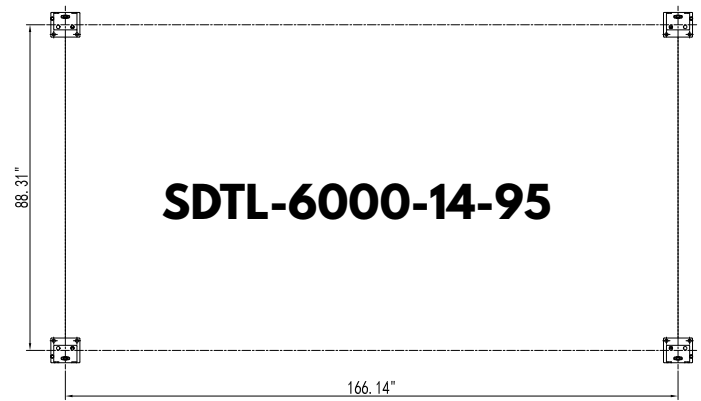
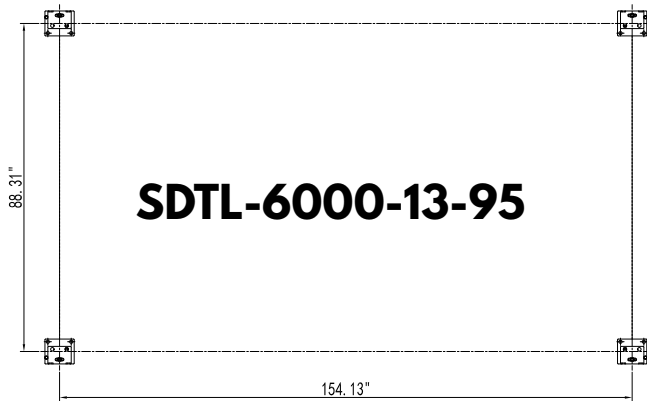
The drawing includes a dashed line indicating a vertical cut or a hidden edge.



5-INSTALLATION INSTRUCTIONS

**PLEASE READ THESE INSTRUCTIONS BEFORE OPERATING THE LIFT.
MAKE SURE TO CHECK ALL BOLTS AND FASTENERS PRIOR TO OPERATION.**

- 1) Make installation marks as provided in the illustrations below.

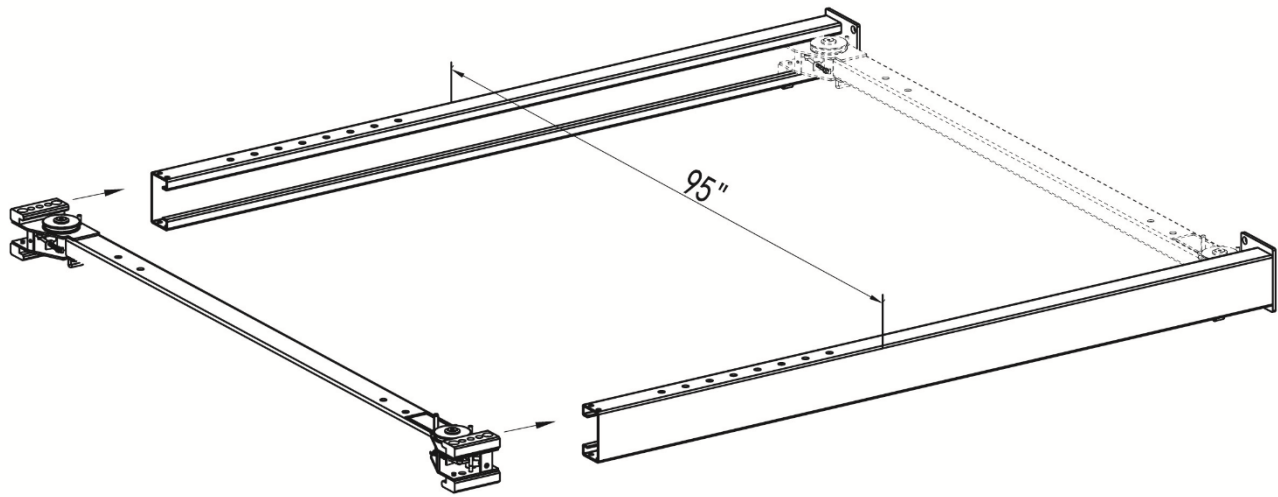


- 2) Remove the packing materials.

- A. Place a wooden 4x4 on the ground at each end where the lift is going to be disassembled from the packing materials. Use a forklift to set the lift onto the 4x4's so that the packing irons are suspended off of the ground.
- B. Unbolt columns from packing irons and set them to the side.
- C. Remove all loose components from the lift packaging.
- D. Using a forklift to support the top runway, unbolt the runway from the packing irons and set it aside, on another set of wooden 4x4's.
- E. Unbolt the remaining runway from the packing irons.

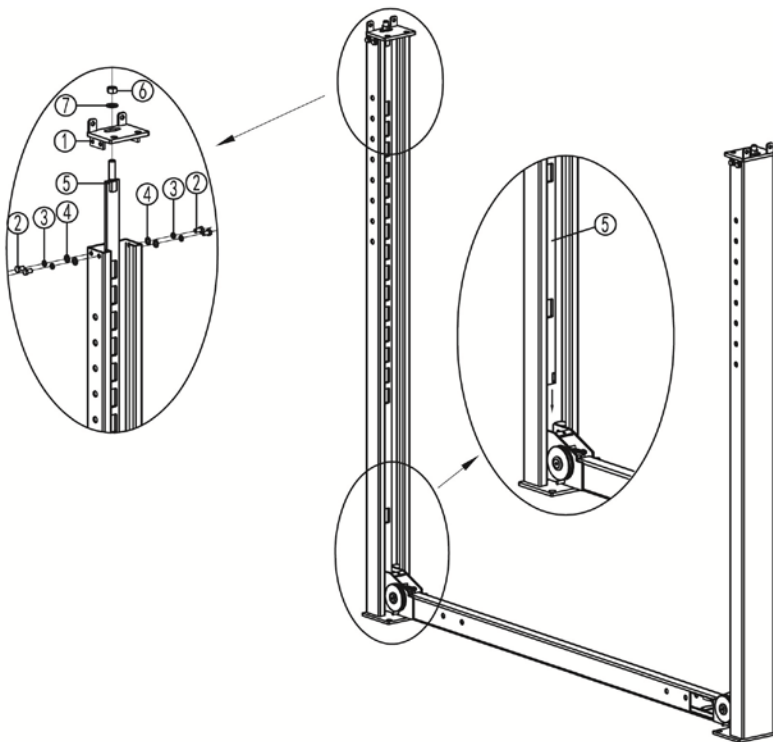
- 3) Assemble crossbeam and columns.

- F. Place two columns on the floor of the trailer, facing each other, then slide the crossbeam all the way into the columns. Be sure that the pulley side of the crossbeam faces towards the inside of the lift. Repeat this process for the opposite side of the lift.
- G. Once the crossbeams are in place, erect each set of columns.



4) Install lock ladders and top caps of the columns.

- A. Install lock ladder into the slot located at the end of each crossbeam.
- B. Thread the provided nut all the way down to the bottom of the threads of the lock ladder stud.
- C. Slide top cap over the lock ladder stud and onto the top of the columns, then secure the top caps to the columns using the provided hardware. Once this is done, thread the other provided nut onto the top of the lock ladder stud.
- D. Ensure the four lock ladders are of the same height from the ground. Adjust the height of each lock ladder by utilizing the nuts on the lock ladder stud.



1. Column Top Cap Assembly
2. M12*25 hex head bolt
3. $\varnothing 12$ spring washer
4. $\varnothing 12$ flat washer
5. Lock Ladder
6. M20 hex head locking bolt
7. $\varnothing 20$ flat washer

5) Install Runways

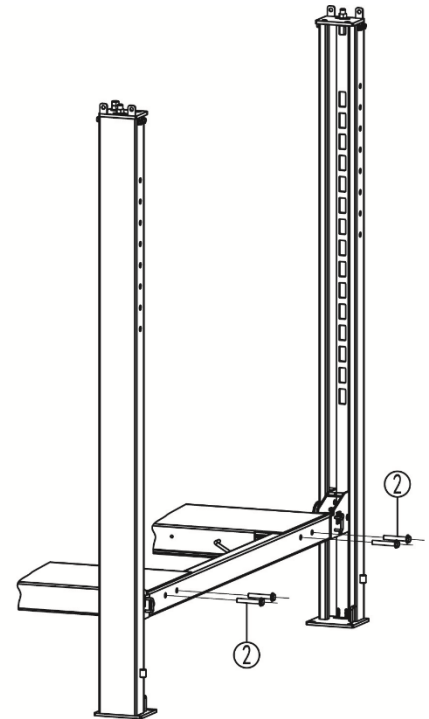
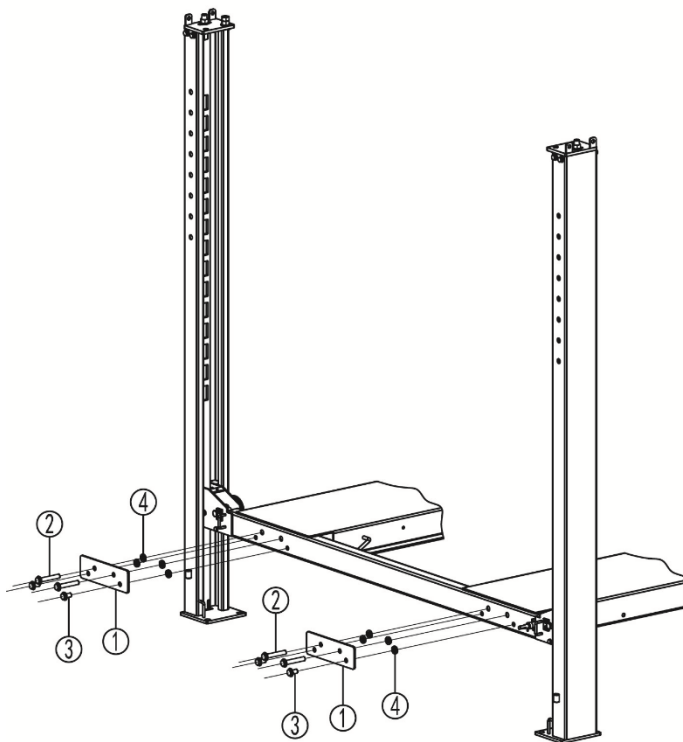
- A. Adjust the distance between crossbeams as per the dimensions in Step 1. (For installation convenience, distance between the inside of the crossbeams should be a little bit longer than the platform length, so we recommend 167".)
- B. Raise both crossbeams to the desired locking height. (Using the lowest locking height is recommended.)
- C. Using the proper lifting equipment, install each runway in the appropriate location on the crossbeams. (The mounting holes in each side of the runway should be lined up with the mounting holes in each crossbeam.)
- D. Attach runways using the supplied hardware as shown in the picture below. Be sure that the bushing side of the ramp clip is facing the crossbeam when installing that end of the runway.

1. Ramp clip

2. M16*100 hex head bolt

3. M16*30 hex head bolt

4. $\varnothing 16$ flat washer



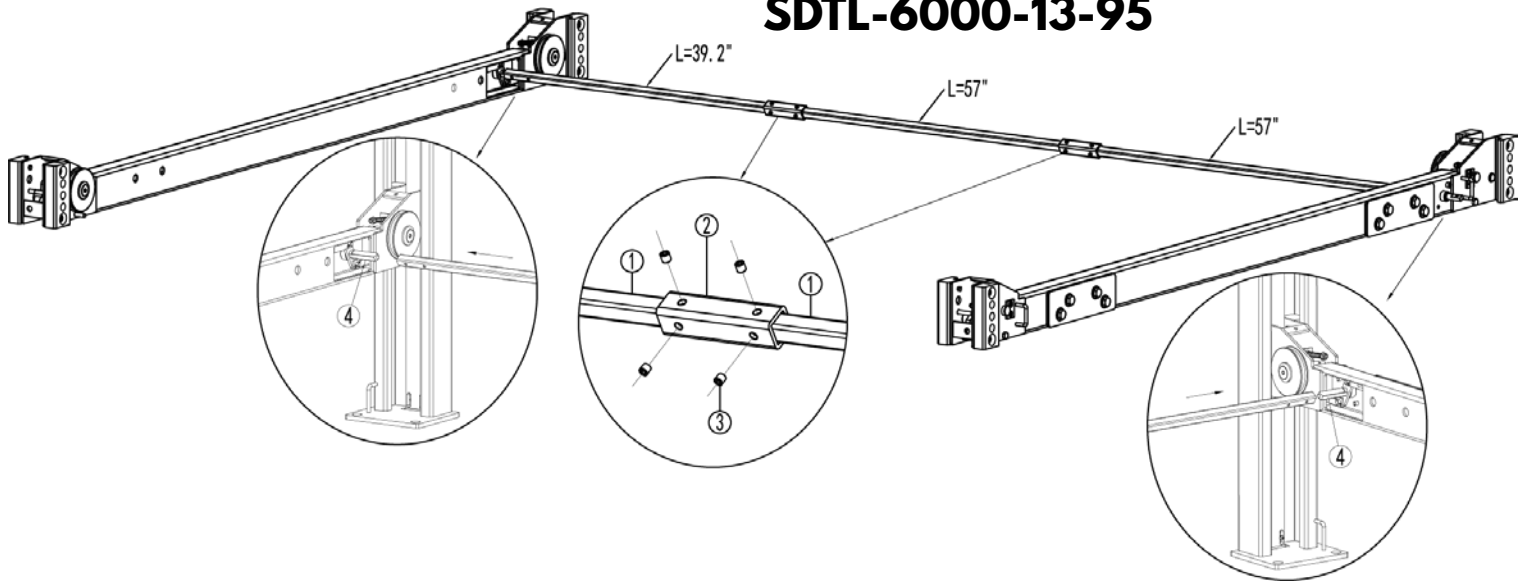
6) Connect Lock Linkage Assembly

- A. Connect linkage rods to each rotating shaft assembly at both ends of the lift.
- B. Slide the connecting bushings over the open ends of each linkage rod.
- C. Place the middle linkage rod into position and secure it using the connecting bushings and supplied set-screws.

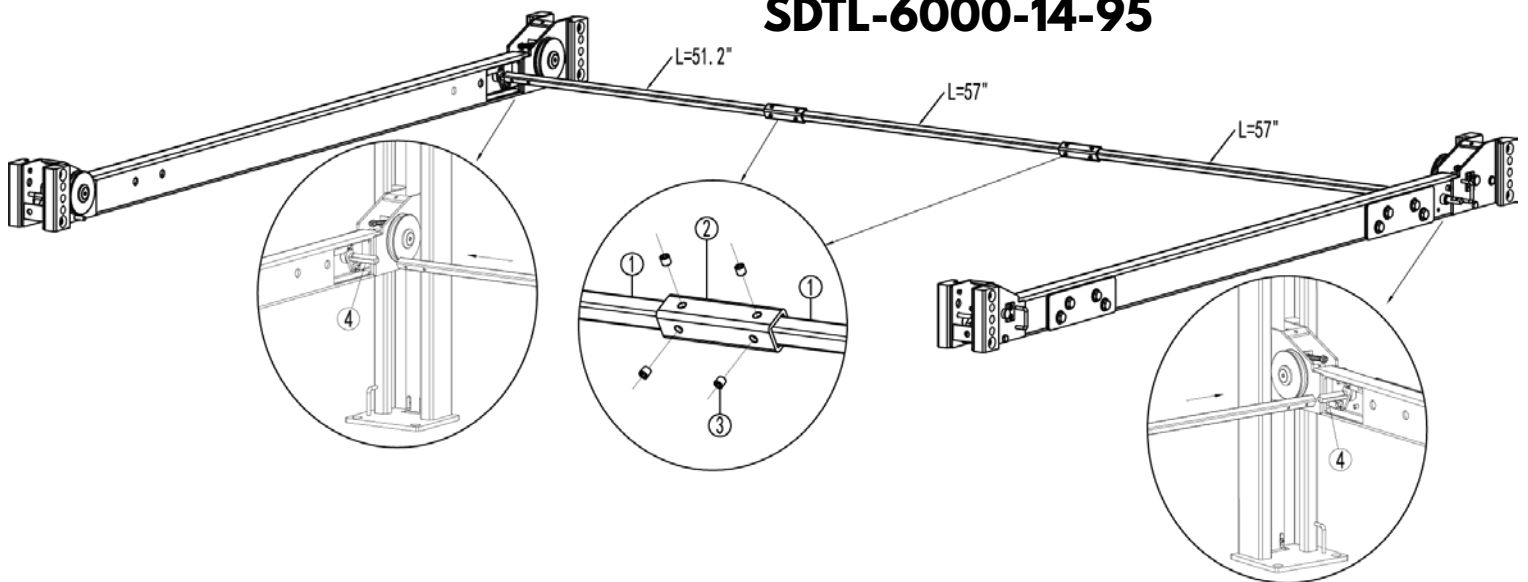
1. Linkage Rod
2. Connecting Bushing

3. Set-Screw
4. Rotating Shaft Assembly

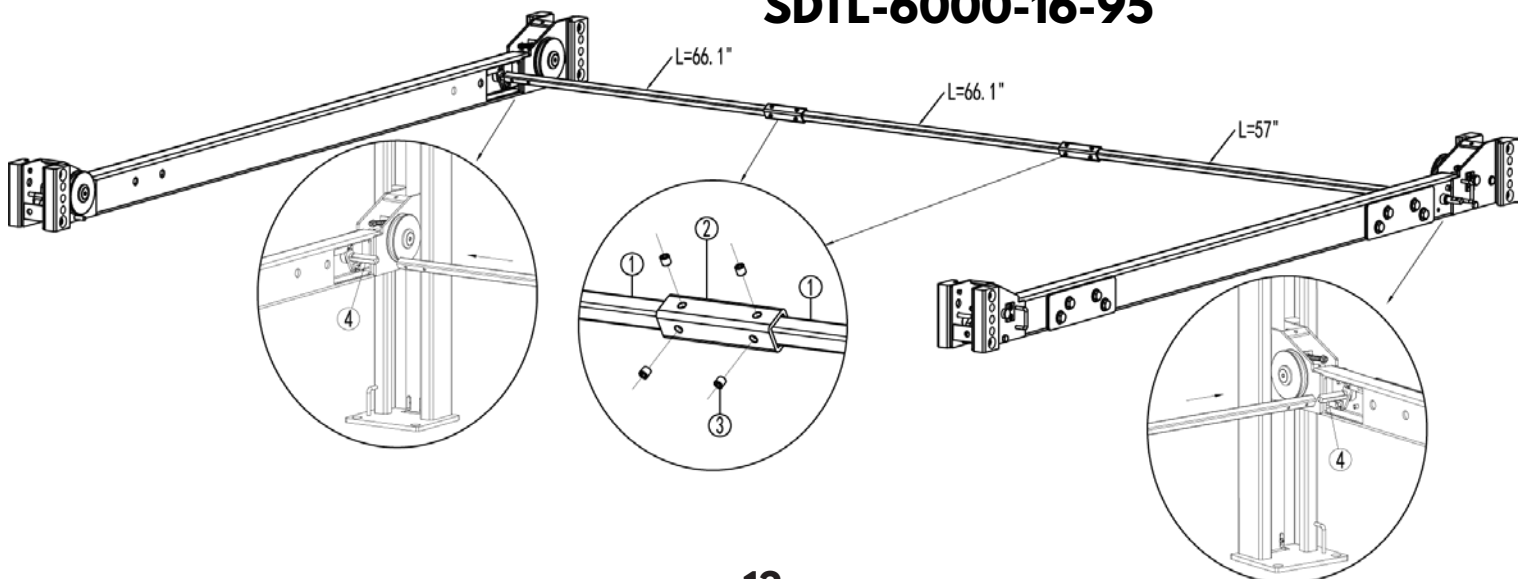
SDTL-6000-13-95



SDTL-6000-14-95



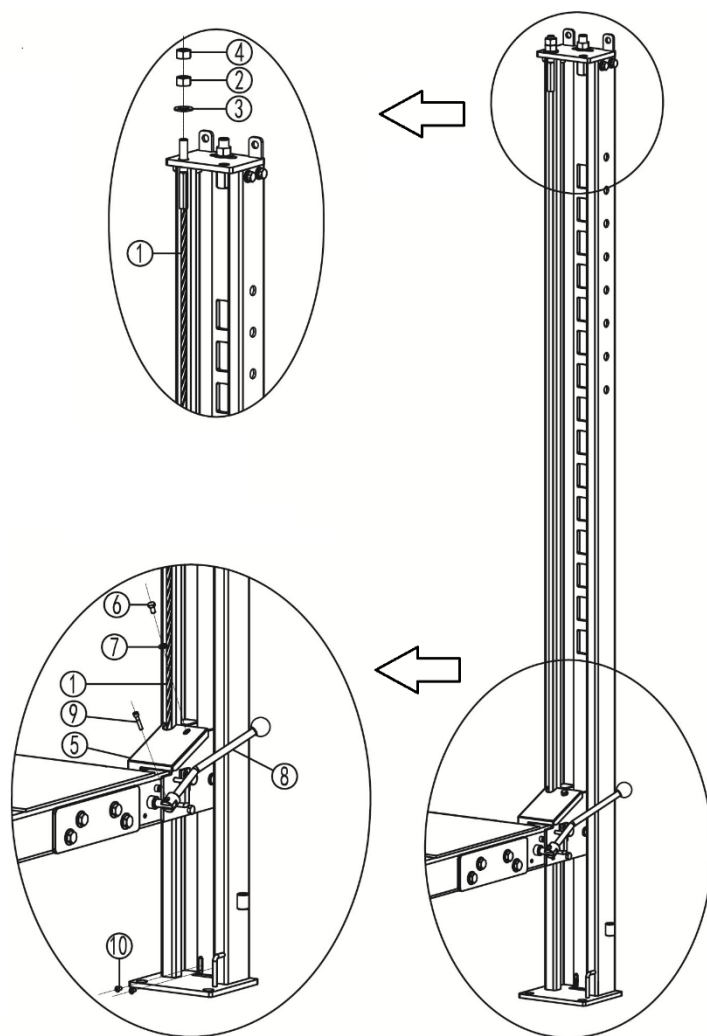
SDTL-6000-16-95



7) Install Steel Cables

- A. Route steel cables from the runway pulleys, through the crossbeam pulleys and then into the top caps of the columns. Tighten nut until top of stud is flush with top of nut.
- B. Install protective pulley covers onto crossbeams.
- C. Install lock release handle at desired end of the lift.
- D. Secure the bottom of the lock ladder using the 2 slots and button head bolts.

- 1. Steel Cable
- 2. M16 Hex Nut
- 3. 16 Flat Washer
- 4. M16 Hex Locking Nut
- 5. Protective Pulley Cover
- 6. M8*15 Hex Head Bolt
- 7. Flat Washer $\varnothing 8$
- 8. Lock Release Handle
- 9. M6*35 Hex Bolt
- 10. M8*20 Button Head Bolt



8) **Connect hydraulic hoses and electrical wires**

ATTENTION: Electrical wiring must be done by a licensed electrician.

9) **Fill hydraulic pump reservoir with hydraulic oil.**

- Fill with 8 quarts of clean and fresh hydraulic oil. (AW-32 is recommended)
- Be sure that the lifting platform is completely lowered before adding or changing oil.

10) **Check steel cables and the function of mechanical locks.**

- A. Check to be sure that each cable is routed properly and seated into the groove of each pulley. Switch the power on and press the UP button until the slack is removed from the cables. Once again, check the pulleys to ensure that the cables are properly seated into the groove of the pulleys.
- B. Raise the platform all the way to the top, then lower all the way back down to bleed any air from the cylinder. During this time you will be able to operate the manual locks to ensure they are in-sync from front to rear.

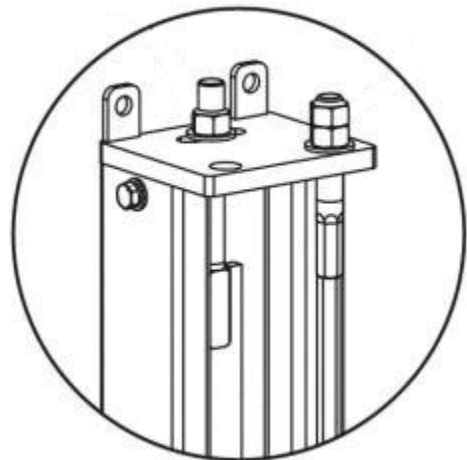
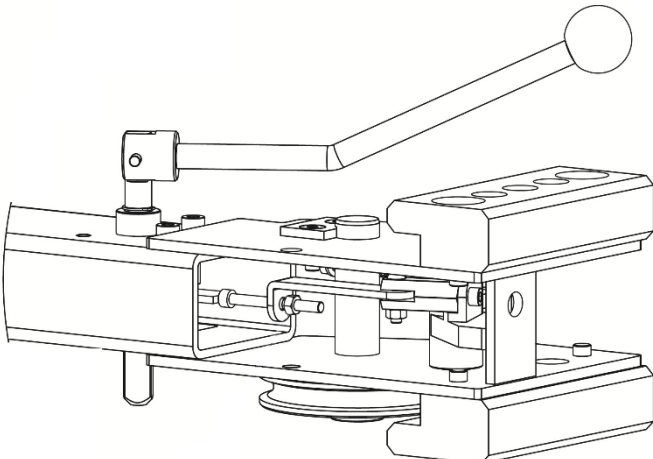
11) **Mount columns to sidewalls of trailer using the tabs on the top caps of the columns and the holes in the baseplates of the columns. *It is imperative that you secure the lift to the trailer frame using all (16) of the mounting holes.***

12) **Leveling the platform**

ATTENTION: No vehicle on platforms when leveling.

- C. Raise the lift midway up and do not lower the platform down on the safety locks.
- D. Using a tape measure, measure the distance from the bottom of the crossbeam to the top of the column baseplate. Once all four corners have been measured, identify the highest corner and tighten the other three cable nuts until all four corners measure the same distance from the crossbeam to the baseplate.
- E. Operate the lift and be sure that all four locks are engaging simultaneously.

13) **Grease inside corners of columns with white lithium grease.**



6-OPERATION INSTRUCTIONS



IMPORTANT: ALWAYS CHOCK WHEELS AND SET PARKING BRAKE BEFORE LIFTING VEHICLE!



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. MAKE SURE THE VEHICLE DOORS ARE CLOSED DURING RAISING AND LOWERING CYCLES.

6.1 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.

6.2 CONTROLS

6.2.1 UP CONTROL

Lift control buttons are located on the wired remote control. Once the up button is pressed, the lift moves up until the button is released or the limit stop is reached.

6.2.2 SAFETY LOCK CONTROL

Press and hold the down button until the safety locks are engaged in the lock ladder.

6.2.3 LOWERING CONTROL

Press the up button until the safety locks disengage from the lock ladder. Pull and hold the safety lock release handle while simultaneously holding the down button on the remote until the lift is completely lowered.

6.3 VEHICLE LOADING & TRANSPORTATION

1. Make sure front tire stops are in place prior to loading a vehicle on the lift. We recommend having another person guide you onto the runways.
2. Check for proper weight distribution (center of gravity should be evenly distributed between columns).
3. Properly secure vehicle to the lifting platform to prevent vehicle movement. Once the vehicle is secure, remove the loading ramps.

3. Raise the lift platform until the hole in the column aligns with the hole going through the ends of each crossbeam at the desired height. Then install the transport safety pins through the hole and secure with the supplied cotter pin. Once the pins are in position, lower the platform until the weight is resting on the pins, relieving pressure off the hydraulic cylinder.
4. Connect a ratchet strap between the welded brackets on the outside face of the crossbeam and the outward edge of the column base to keep the platform from bouncing up during transport.

7-MAINTENANCE

 **WARNING: DISCONNECT THE POWER BEFORE SERVICING THE LIFT.**

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

7.1 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.

7.1.1 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. Check hydraulic connections, and hoses for leakage.
5. Check cable connections - Bends, cracks - and looseness.
6. Check for frayed cables in both raised and lowered positions.
7. Check snap rings at all rollers and sheaves.
8. Check bolts, nuts, and screws and tighten.
9. Check wiring & switches for damage.
10. Keep base plates free of dirt, grease or any other corrosive substances.

7.1.2 WEEKLY

1. Check hydraulic oil level.
2. Check and tighten bolts and nuts, and screws.
3. Check cylinder pulley assembly for free movement or excessive wear on cylinder yoke or pulley pin.
4. Check cable pulley for free movement and excessive wear.

7.1.3 MONTHLY

1. Check safety mechanism operation.
2. Check condition of shafts, shaft locks and bushings.
3. Check overall cleanliness.
4. Check for hydraulic oil leaks.

7.1.5 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. Grease slide blocks and column surface contacting slide blocks.
2. 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 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.

7.2 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.

7.2.1 HYDRAULIC SYSTEM

1. Check the fluid level with the lift fully lowered and add fluid as required. Use premium quality AW-32 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.

7.2.2 GREASING POINTS

SLIDE BLOCKS:

- The slide blocks should be greased every six months (or more frequently in case of noise generation).

7.2.3 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 components are damaged.
2. Check that the safety locking mechanism is functioning correctly.

7.2.4 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.**

7.3 CLEANING



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

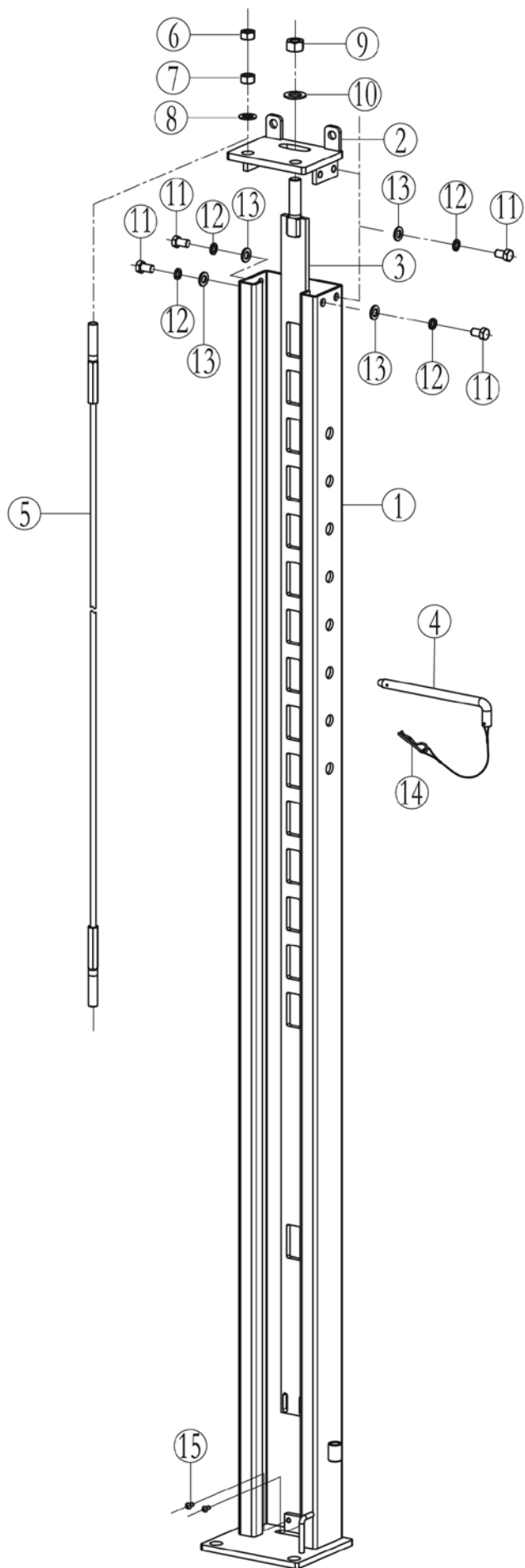
1. Periodically wash off aggressive substances and treat the lift with oil or wax spray.
2. Repair the damage to the paintwork immediately to prevent corrosion.

9-TROUBLESHOOTING

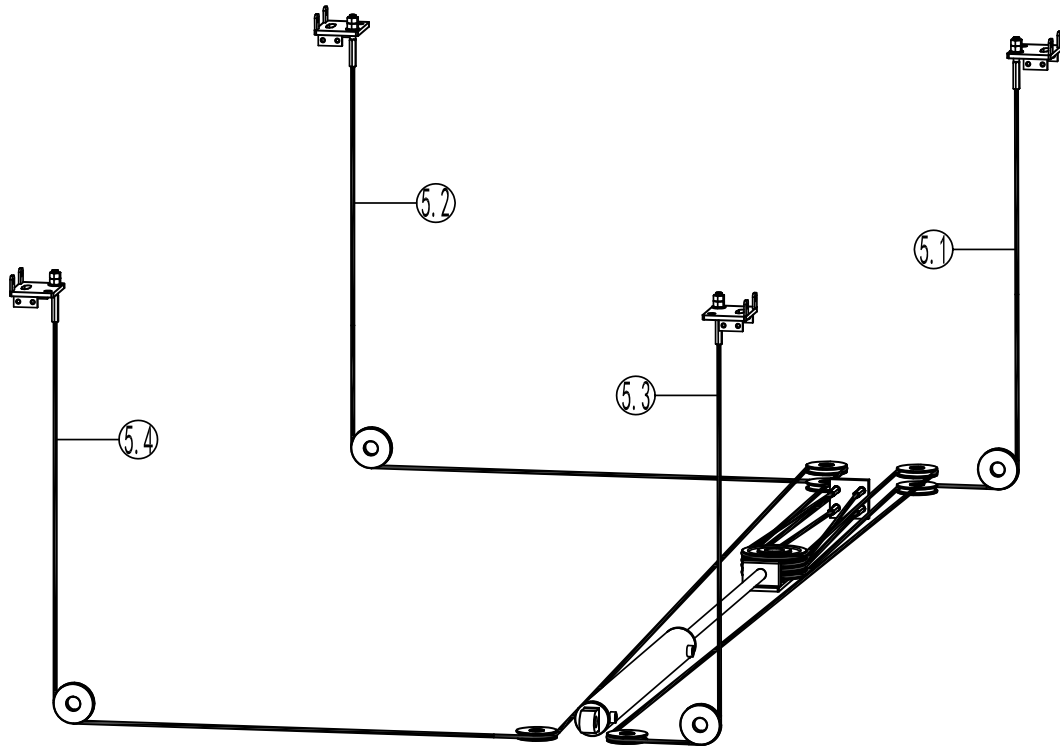
1. **Motor does not run:**
 - A. Breaker or fuse blown.
 - B. Motor thermal overload tripped. Wait for overload to cool.
 - C. Faulty wiring connections.....Call electrician for service.
 - D. Defective up button.....Call electrician for service.
2. **Motor runs but will not raise:**
 - A. A piece of debris may be lodged in the check valve. Remove check valve to inspect.
 - B. Oil level too low. Oil level should be just under the vent cap port when the lift is in the lowered position.
 - C. Check to make sure that the oil pickup tube inside the reservoir is still connected to the pump.
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 tank-mounting flange, check the oil level in the tank.
 - B. Check the rod end of the cylinder: If the rod seal of the cylinder is leaking, rebuild or replace the cylinder.
 - C. Breather end of the cylinder: If the piston seal of the cylinder is leaking, rebuild or replace the cylinder.
7. **Lift makes excessive noise:**
 - A. Column 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.

11-PARTS DIAGRAMS

11.1 COLUMN ASSEMBLY

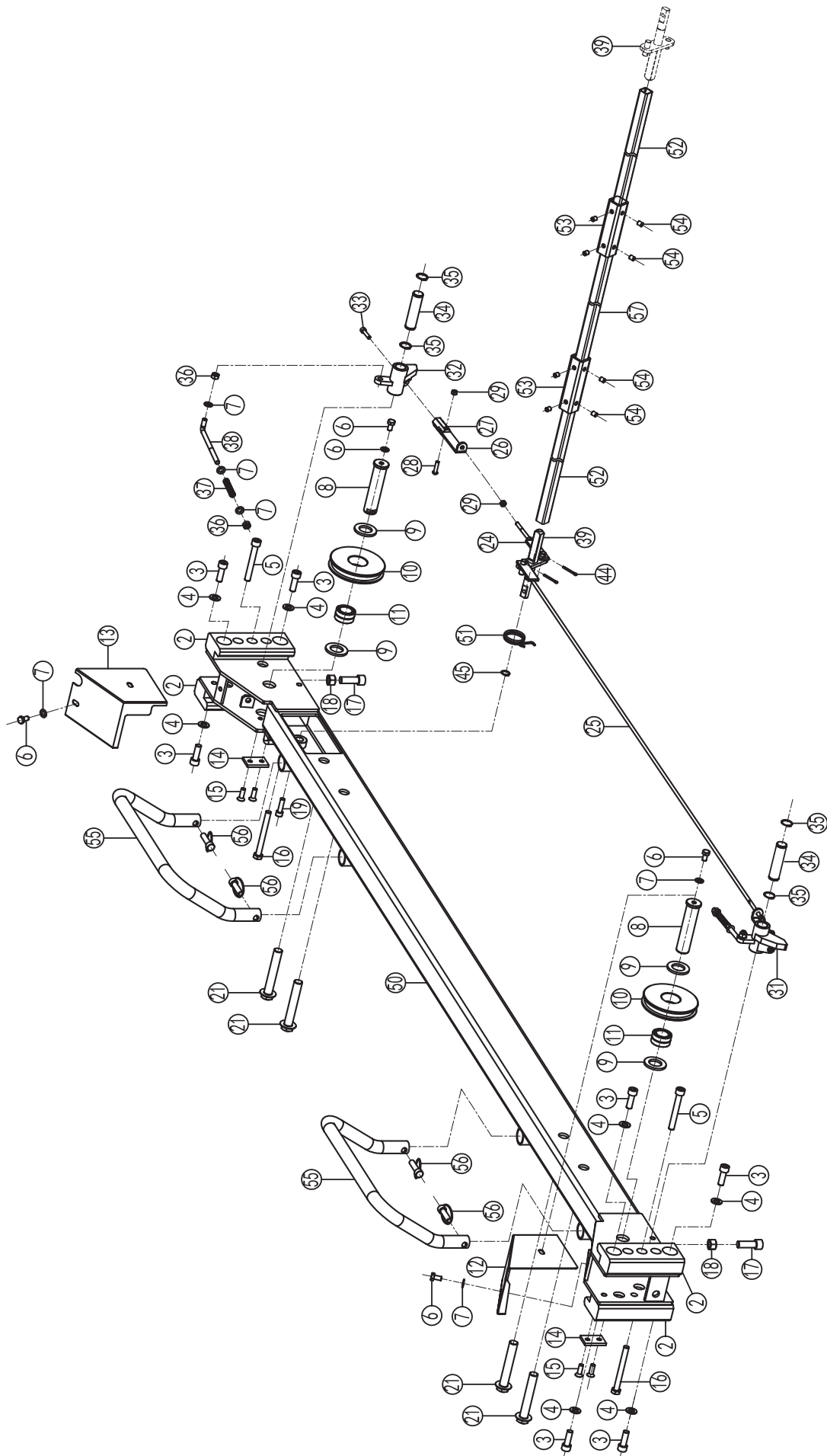


NO.	CODE	DESCRIPTION	QTY
1	614032031	Post A	2
1	614032032	Post B	2
2	614032033	Column Top Cap	4
3	612032034	Lock Ladder	4
4	615032044	Transport Safety Pin	4
6	203103019	M16 Hex locking nut	4
7	203101009	M16 Hex nut	4
8	204101009	M16 Flat washer C	4
9	203103012	M20 Hex locking nut	4
10	204101011	M20 Flat washer C	4
11	201102026	M12*25 Hex head bolt	8
12	204101007	M12 Flat washer C	8
13	204201006	M12 Spring washer	8
14	206201009	ø2.5*50 Cotter pin	4
15	202110005	M8*20 Hex socket button head bolt	8

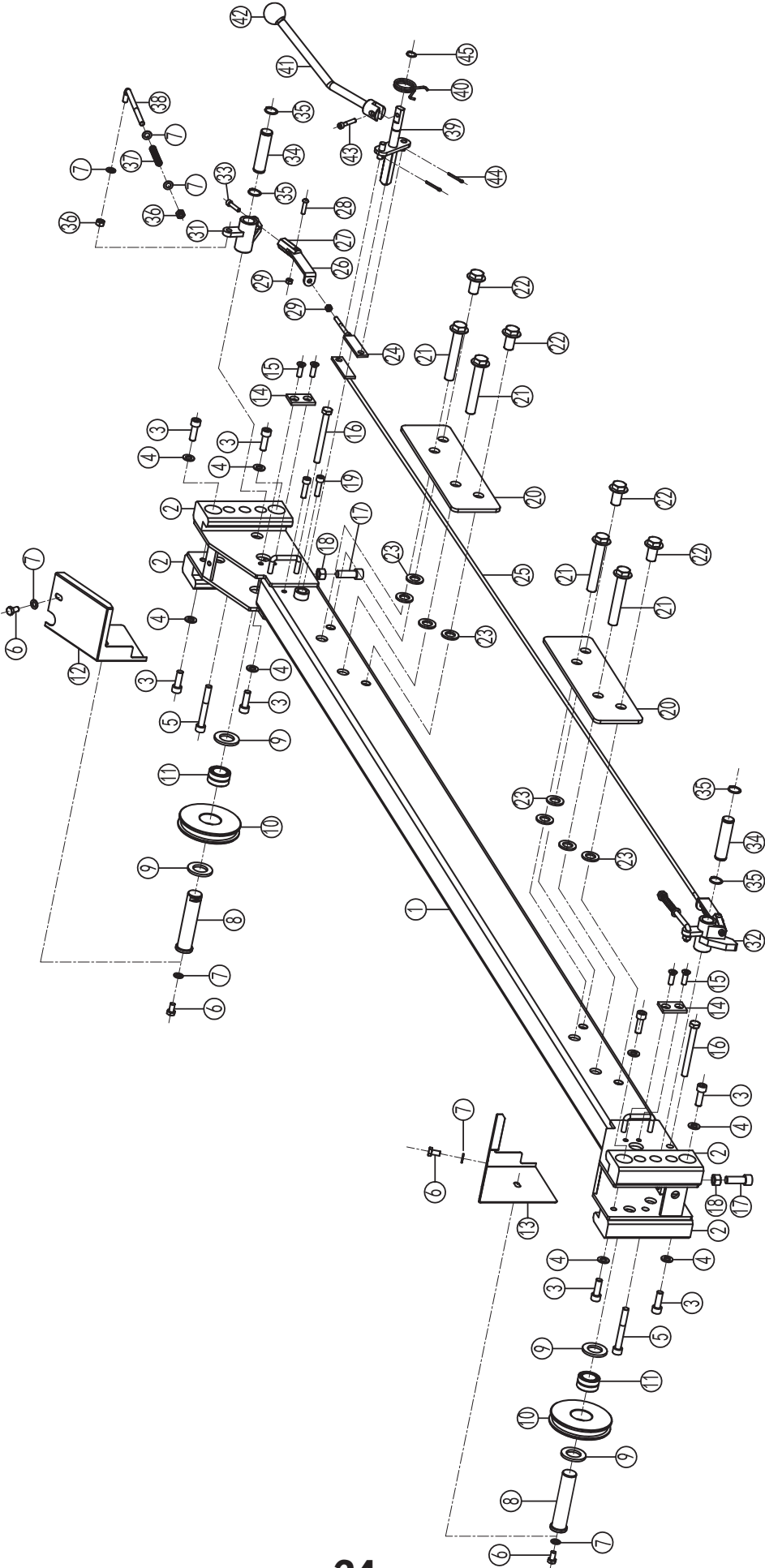


NO.	CODE	DESCRIPTION	QTY
5.1	615032046	[13'MODEL] Steel cable (L=188 9/16"--Φ9.3)	1
5.2	615032047	[13'MODEL] Steel cable (L=244 7/8"--Φ9.3)	1
5.3	615032048	[13'MODEL] Steel cable (L=340 3/8"--Φ9.3)	1
5.4	615032049	[13'MODEL] Steel cable (L=396 5/8"--Φ9.3)	1
5.1	615032032C	[14'MODEL] Steel cable (L=212 5/8" --Φ9.3)	1
5.2	615032033C	[14'MODEL] Steel cable (L=268 7/8" --Φ9.3)	1
5.3	615032034C	[14'MODEL] Steel cable (L=376 3/8"--Φ9.3)	1
5.4	615032035C	[14'MODEL] Steel cable (L=432 11/16"--Φ9.3)	1
5.1	615032020	[16'MODEL] Steel cable (L=236 5/8" --Φ9.3)	1
5.2	615032021	[16'MODEL] Steel cable (L=292 15/16"--Φ9.3)	1
5.3	615032022	[16'MODEL] Steel cable (L=424 7/16"--Φ9.3)	1
5.4	615032023	[16'MODEL] Steel cable (L=480 11/16"--Φ9.3)	1

11.2 CROSSBEAM ASSEMBLY 1



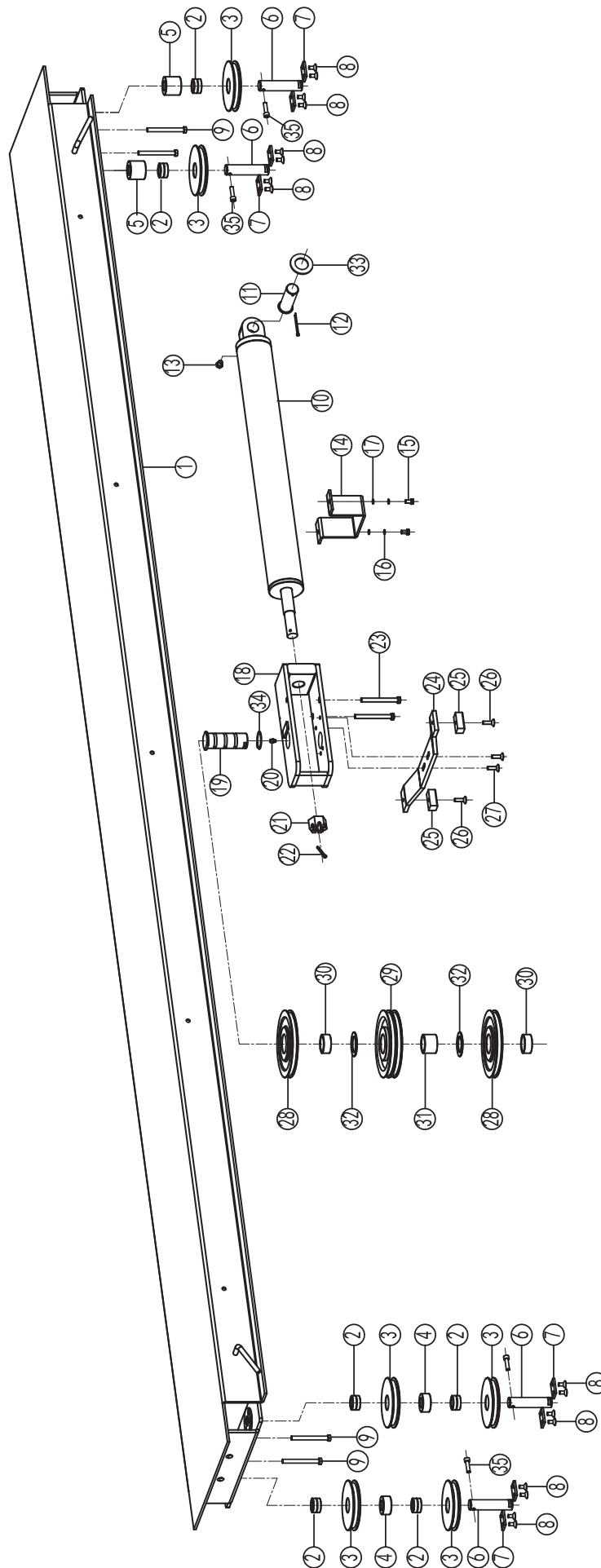
11.3 CROSSBEAM ASSEMBLY 2



NO.	CODE	DESCRIPTION	QTY
1	614032040	Main crossbeam	1
2	420321010B	Slide block	8
3	202109044	M10*35 Hex socket cylinder head bolt	16
4	204101006	M10 Flat washer C	16
5	202109075	M10*80 Hex head full swivel bolt	4
6	201102011	M8*15 Hex head full swivel bolt	8
7	204101005	M8Flat washer C	16
8	410321601	Pulley shaft A	4
9	204101012	M24 Flat washer C	8
10	410321191	Pulley A	4
11	205101098	Needle bearing	4
12	410321663C	Protective cover A	2
13	410321673C	Protective cover B	2
14	410270101B	Shaft retaining block	4
15	202111007	M8*20 Hex socket flat head bolt	8
16	201101002	M10*100 Hex head bolt	4
17	202109053	M12*35 Hex socket cylinder head bolt	4
18	203101007	M12 Hex nut	4
19	202109031	M8*30 Hex socket cylinder head bolt	3
20	410321303	Ramp hanging plate	2
21	201102069	M16*100 half swivel bolt	8
22	201102040	M16*30 half swivel bolt	4
23	204101009	M16 Flat washer C	16
24	614032045	Release plate A	2
25	614032046	Release plate B	2
26	410321651	Adjustable clip B	4
27	410270601	Adjustable post	4
28	202110013	M6*25 Hex socket button head bolt	4
29	203103005	M6 Hex locking nut	8
31	410321631	Safety block B1	2
32	410321641	Safety block B2	2
33	202109022	M6*25 Hex socket cylinder head bolt	4
34	410321611	Safety shaft	4
35	204301007	M20 Circlip	8
36	203103006	M8 Hex locking nut	8
37	410300011	Spring washer	4
38	410321701	Adjustable rod A	4
39	612032042	Rotating Shaft Assembly	1
40	410321691	Torsional spring	1
41	612030003	Handle	1

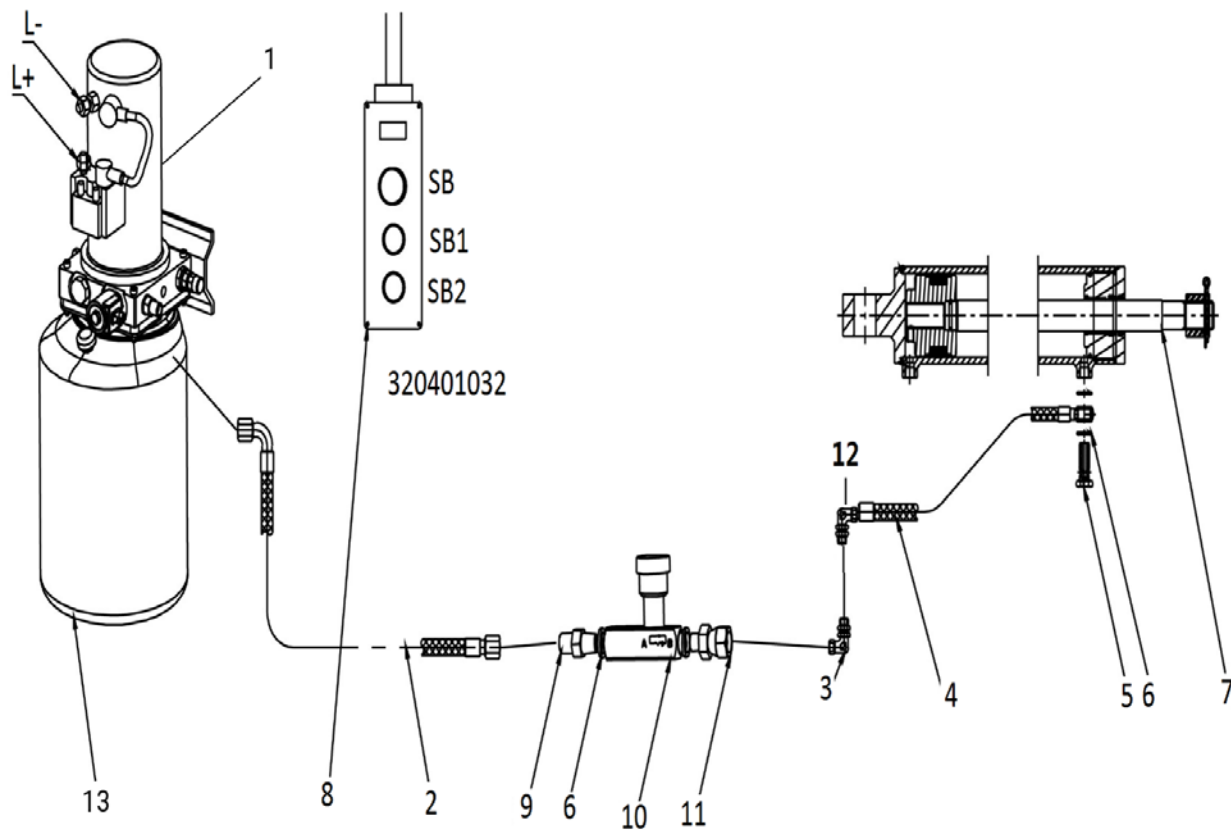
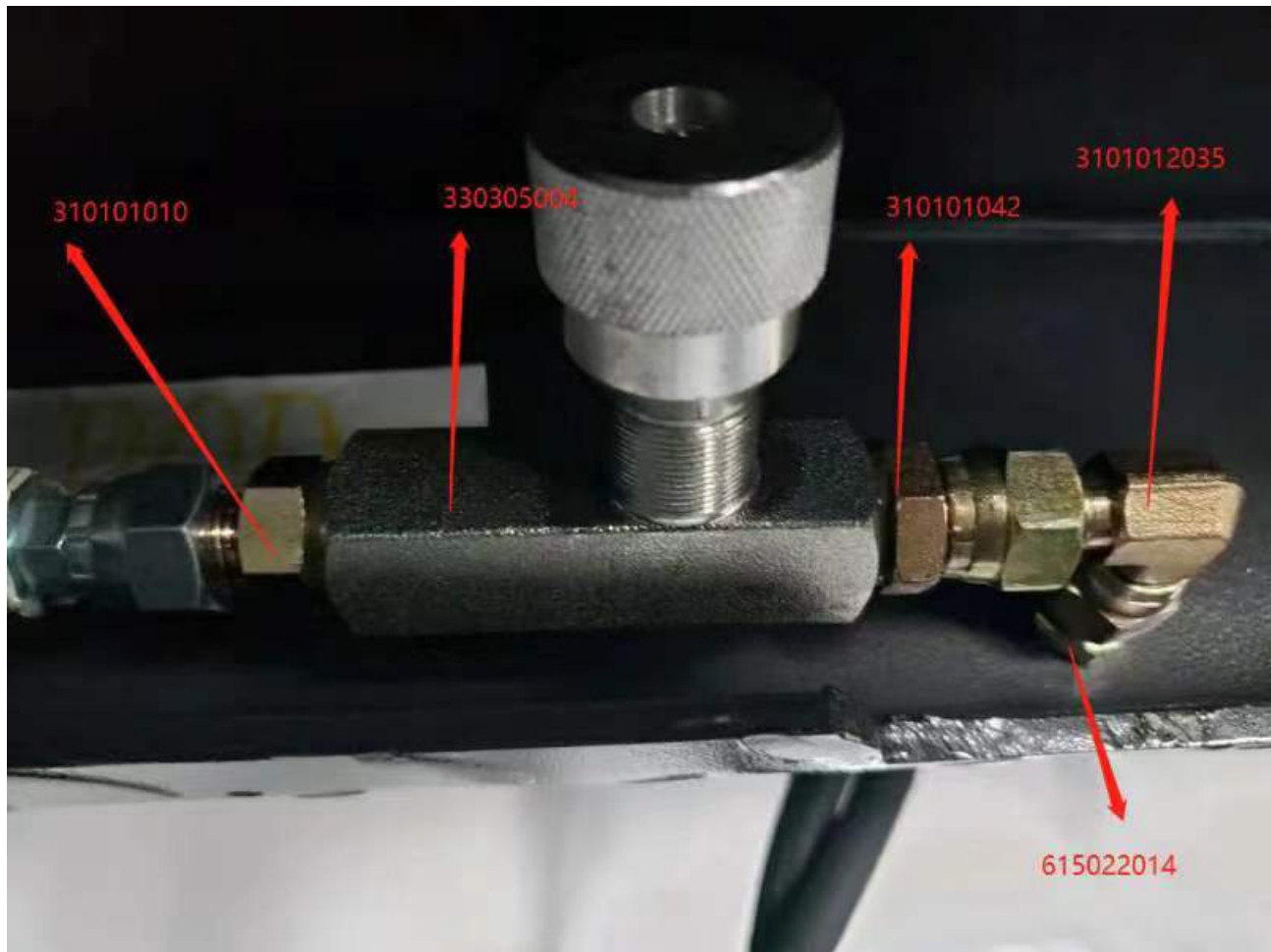
NO.	CODE	DESCRIPTION	QTY
42	208105003	Handle ball	1
43	202109023	M6*35 Hex socket cylinder head bolt	1
44	206201001	M2.5*30 Cotter pin	4
45	204301004	M15 Circlip	2
50	614032041	Secondary crossbeam	1
51	612032043	Secondary Rotating Shaft Assembly	1
52	410321483B	Linkage Rod - Length: 57" (see pg. 13 for placement)	1 or 2
53	410321493	Connecting Bushing	2
54	202205006	Set-Screw	8
55	410321501	Retaining rod	2
56	206101100	ø10*45 Safety bolt	4
57	410322033	[13' MODEL] Linkage Rod - Length: 39.2"	1
57	410322073	[14' MODEL] Linkage Rod - Length: 51.2"	1
57	410322063	[16' MODEL] Linkage Rod - Length: 66.1"	1

11.4 CYLINDER & RUNWAY ASSEMBLY



NO.	CODE	DESCRIPTION	QTY
1	614032057	[13' MODEL] Main Runway	1
1	614032058	[13' MODEL] Secondary Runway	1
1	614032050B	[14' MODEL] Main Runway	1
1	614032051	[14' MODEL] Secondary Runway	1
1	614032060	[16' MODEL] Main Runway	1
1	614032061	[16' MODEL] Secondary Runway	1
2	205101098	Needle bearing	6
3	410321191	Pulley A	6
4	410321201	Retain sheath A	2
5	410321211	Retain sheath B	2
6	410321221B	Pulley shaft B	4
7	410270101B	Shaft retaining block	5
8	202111005	M8*12 Hex socket flat head bolt	16
9	201101002	M10*100 Hex head bolt	4
10	615032043	Oil cylinder	1
11	410270281	Oil cylinder shaft II	1
12	206201011	M4*50 Cotter Pin	1
13	310201002	Silencer	1
14	410321893	Cylinder supporting plate	1
15	201102026	M12*25 Hex head full swivel bolt	2
16	204101007	M12 Flat washer C	2
17	204201006	M12 Spring washer	
18	614032035	Pulley bracket	1
19	410321161	Pulley shaft	1
20	208106001	M8*1 Straight pressed oil cup	1
21	203204002	M27 Open slot nut M27	1
22	206201011	M4*50 Cotter Pin	2
23	201102070	Hex head half swivel bolt	2
24	410321153	Oil cylinder guiding plate	1
25	420270240	Guiding slider	2
26	202111007	M8*20 Hex socket flat head bolt	2
27	202110005	M8*20 Hex socket button head bolt	8
28	410321171	Single slot pulley	2
29	410321181	Double slots pulley	1
30	205101099	Bearing (5mm)	2
31	205101100	Bearing (5mm)	1
32	410278751	ø40 large flat washer (42*75*2)	2
33	204101015	Flat Washer	2
34	204301014	ø40 Circlip	1
35	202109031	M8*30 Hex socket cylinder head screw	4

11.5 POWER UNIT & CONNECTION



NO.	CODE	DESCRIPTION	QTY
1	622034027	DC power unit YBZ-F210-L2DD1G12N(DC12V 1600W 1.0ml)	1
2	624001861	Φ8 Rubber oil hose Φ82SN, L=6000mm	1
3	310102035	Right angled connector EW-G1/4SR-G1/4 I60	1
4	624001890	Φ8 Rubber oil hose Φ82SN, L=890mm	1
5	410281130	Cylinder connector CJ-A12-B5-C10	1
6	207103025	Composite washer 13_7X20X1_5	4
7	615032043	64P cylinder 64P-CYL2	1
8	320401032	Control unit RDA-61K	1
9	310101010	Straight connector BDPF-G14-G14-I60	1
10	330305004	Non-return restrictive valve DVG-R-DN8 G1/4-1A	1
11	310101042	Straight connector 6604-BJMSC-G1/4-G1/4-L36	1
12	615022014	612 Right angled connector 612E-A8	1
13	330405045	Steel Oil Reservoir 8L	1

NOTES

[illegible]

This image shows a full page of blank white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, typical of notebook or legal stationery. There are no margins, text, or other markings present.

This image shows a full page of blank white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for writing or drawing. There are no margins, text, or other markings present.

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](https://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:	_____	SERIAL NUMBER:	_____
DATE OF PURCHASE:	_____		
PLACE PURCHASED:	_____		
NAME:	_____		
STREET:	_____		
CITY, STATE, ZIP:	_____		
PHONE:	_____		
EMAIL:	_____	☐	OPT OUT OF PROMOTIONS



In order to receive your warranty, return this card
or visit [TITANLIFTS.COM/WARRANTIES](https://titanlifts.com/warranties) within 30 days.



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 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, nylon slide blocks and rubber arm pads. **Titan Master Series** includes lifetime warranty on nylon slide blocks.

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 warranted 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 warranted 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 warranted 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 warranted 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.**

P.O. Box 7069 • Greenwood, IN 46142 • Ph. 888-908-4826 • Fx. 317-215-2770 • www.titanlifts.com



WARNING



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

PO Box 7069 Greenwood, IN 46142
1.888.908-4826 FAX (317) 215.2770
www.titanlifts.com

Patent No.: US 8,104,588 B2
CA 2,729,670

9/13/23