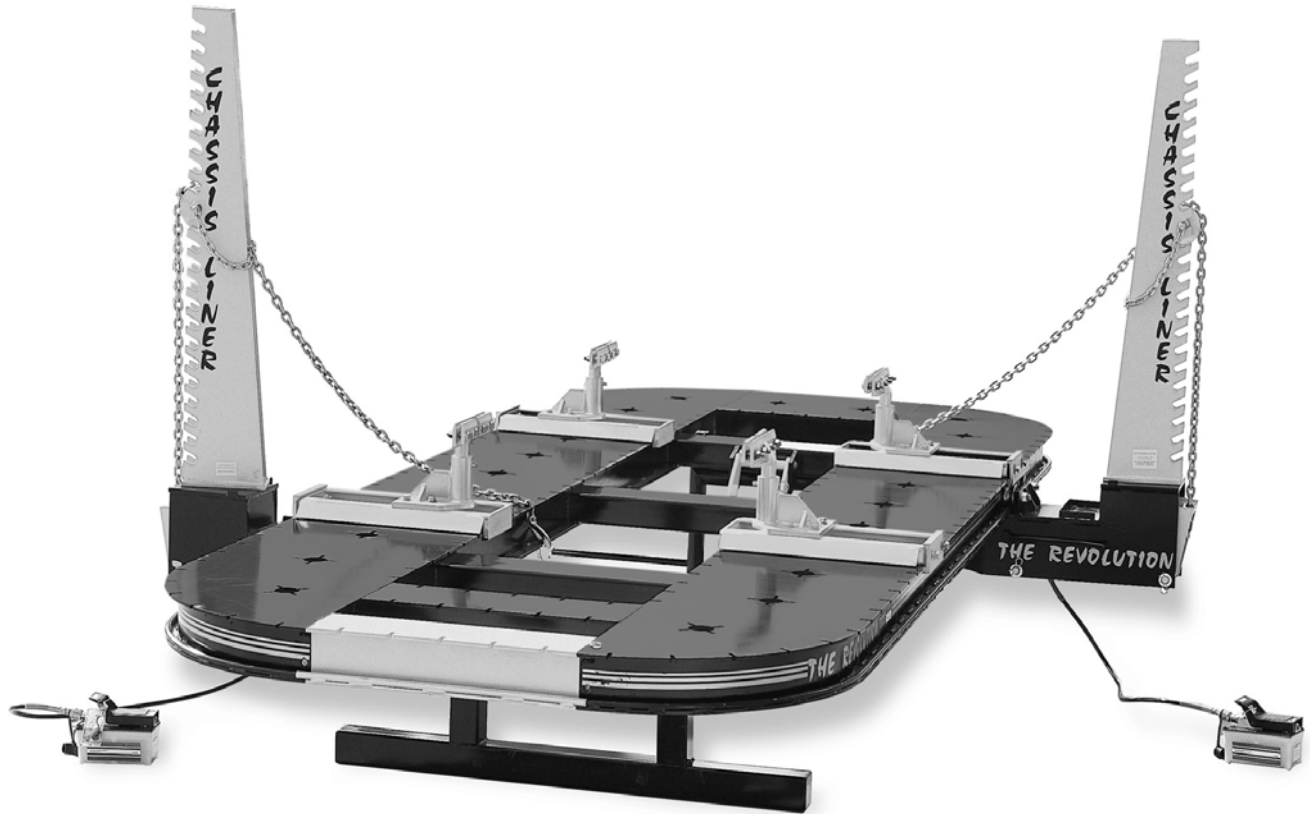


# CHASSIS LINER TRUCK'N REVOLUTION



## OWNERS MANUAL

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Rev: 10/09



Congratulations on your recent purchase with Chassis Liner! We would like to thank you for choosing one of our products and welcome you to the Chassis Liner family. Our commitment to your satisfaction begins before you take delivery and continues for as long as you own your Chassis Liner.

To help us ensure your satisfaction, please take a moment and write the serial number from your Chassis Liner product (which is located in the center of the machine) in the space provided below. In the future if you have a service related question, this document will make it easier for you to find the serial number, plus help our service manager ensure your satisfaction.

Thank you for choosing Chassis Liner. We hope you enjoy many years of profitability with your new Chassis Liner Frame Straightening System.

Sincerely,  
Chassis Liner Company

<p>CHASSIS LINER PRODUCT SERIAL NUMBER</p> <hr/>
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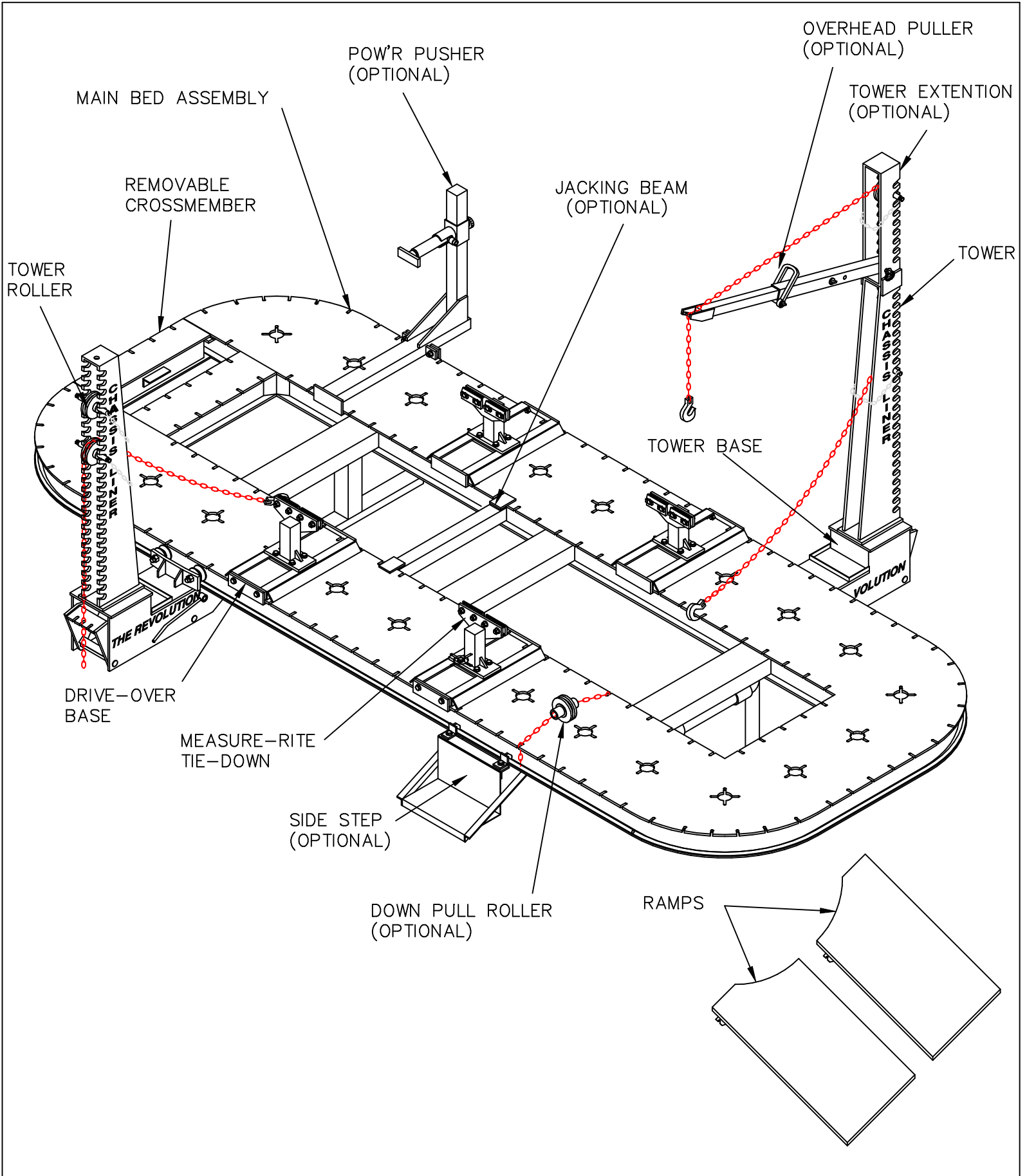
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# MACHINE DIMENSIONS & ANCHORING PROCEDURES

## INSTALLATION:

A CERTIFIED CHASSIS LINER INSTALLER IS RECOMMENDED TO ASSEMBLE AND INSTALL THE MACHINE.

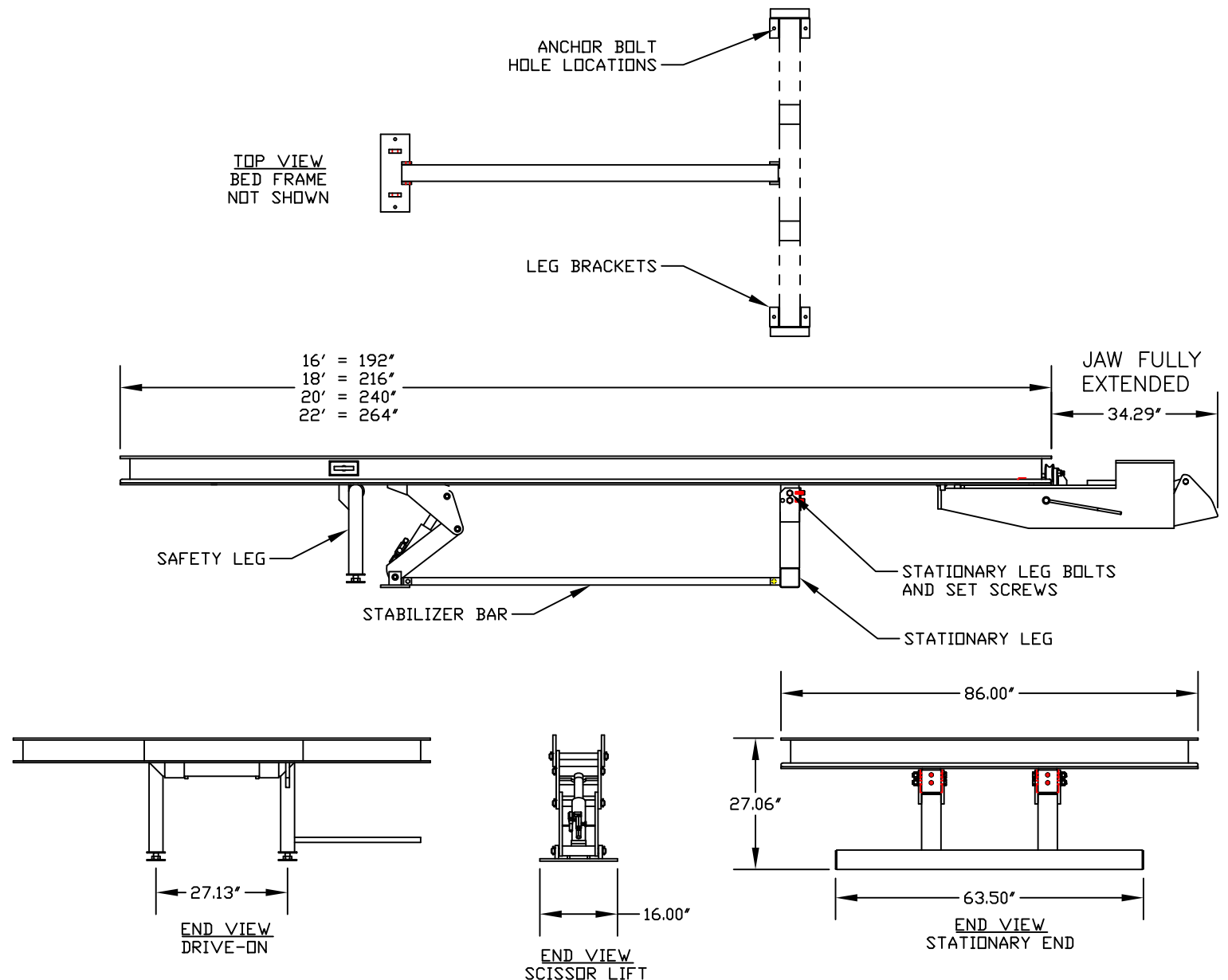
## ANCHORING THE MACHINE TO THE FLOOR:


IT IS REQUIRED TO ANCHOR THE MACHINE TO THE FLOOR. FAILURE TO DO SO COULD RESULT IN:

\*THE MACHINE MOVING WHILE LOADING/UNLOADING VEHICLES.


## HOW TO ANCHOR THE MACHINE:


- 1.) ENSURE THE STATIONARY LEG BOLTS & SET SCREWS ARE TIGHT.
- 2.) LOCATE THE (4) HOLES IN THE LEG BRACKET WELDMENTS.
- 3.) DRILL 1/2" HOLES IN THE CONCRETE AT THE LEG BRACKET LOCATIONS.
- 4.) PLACE THE 1/2" x 3.75" ANCHOR BOLTS AND TIGHTEN.




 This safety alert symbol identifies safety information in this manual. Severe operator injury could result if these WARNING/CAUTION notes are not followed.


 Always wear protective clothing, gloves and safety glasses to avoid injury.


 Before raising or lowering the machine, always make sure the towers are at the front of the machine and any obstructions are moved from underneath the machine.

 Use a helper to guide you when driving a vehicle on or off the machine.


 Always put the vehicle in PARK (automatic transmission), apply the EMERGENCY BRAKE, and BLOCK the WHEELS when raising or lowering the machine with a vehicle on it.

 Lift the vehicle at structural components and install wheel stands if the wheels are removed.

 To avoid personal injury, DO NOT position yourself close to, or in line with, chains, clamps, or other accessories while pressure is applied to the system.

 Remove any twist in the chain before applying pressure.

 DO NOT walk behind the machine with a vehicle on it when the machine is lowered or being lowered.

 DO NOT go underneath the machine unless the safety leg locking tabs are fully engaged.

## LOWERING AND RAISING THE MACHINE

Step 1: Move all of the pulling towers to the front of the machine. No towers shall be located between the front legs and the rear of the machine while it is being lowered or raised.

Step 2: Press the foot pump lever to "PUMP" to raise the machine so the safety legs are off the ground. Disengage the locking pin on the safety legs and swing the legs back (See figure 1). Secure the safety legs in this position by hooking the safety leg chain on the side of the machine bed.

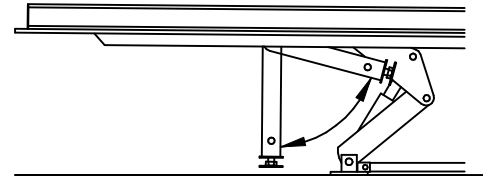


Figure 1

Step 3: Release the pressure on the pump by pressing the "RELEASE" side of the foot pump lever. Keep the pressure released until the machine is completely lowered.

Step 4: To raise the machine, press "PUMP" on the foot pump. As the machine begins to raise, unhook the safety leg chain from the machine bed hole and allow it to swing down.

Step 5: When the machine has raised enough to allow the safety leg to swing free without touching the floor, stop raising the machine and swing the safety leg all the way towards the rear so the locking pin will engage.

Step 6: Release the pressure on the foot pump until the safety legs rest on the floor. ALWAYS VERIFY THAT THE LOCKING PINS ARE FULLY ENGAGED.

Note: These above instructions are for a air/hydraulic machine. If your machine is an electric/hydraulic machine, follow the same procedures using the hand held control, making sure that all of the control valves except for the lift are turned OFF.



With an electric/hydraulic machine, once the machine has been raised up and is resting on the safety legs, the control valve for the lift MUST BE TURNED OFF to prevent possible injury.



Make sure that the area between the tower base and the bottom of the machine bed remain clear of debris and tools. Failure to do so may result in injury.

## LOADING A VEHICLE ONTO THE MACHINE

- Step 1: Lower the machine.
- Step 2: Attach ramps to machine. Ramps **MUST** be placed over tabs on machine bed to prevent them from moving.
- Step 3: Load the vehicle onto the machine. Once the vehicle is in position, apply the emergency brake and block the wheels.



If the drive-over bases are to be left on the machine while loading the vehicle, verify that they are secured to the machine to prevent them from moving and possibly causing injury.

- Step 4: Raise the machine.
- Step 5: Working on one side of the vehicle at a time, lift the vehicle and place the tie-downs under the pinchweld. The tie-downs should be located as near to the ends of the rocker panel as possible. Inspect the inside of the pinchwelds for fuel-lines, brake-lines, or other items that may interfere with the placement of the tie-downs. Lower the vehicle so the pinchweld fits into the tie-downs. **DO NOT TIGHTEN BOLTS.**

If using the Truck and Utility Frame Anchoring System, raise one side of the vehicle so that the tie-downs will fit under the vehicle's frame. Adjust the height of the adaptors so that the frame securely rest on them. Tighten the bolts.

- Step 6: Repeat Step 5 to the other side of the vehicle.
- Step 7: Tighten the bolts in the order shown in figure 2. **DO NOT USE AN IMPACT WRENCH** on the bolts to prevent damage to the threads.

If using the Truck and Utility Frame Anchoring System, secure the vehicle by using chains and binders.

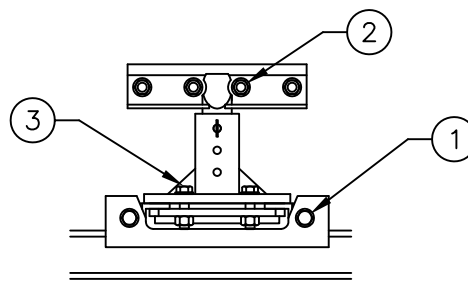


Figure 2

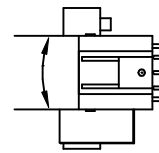
TOWER OPERATION

Step 1: Move the tower into the desired position for the pull to be made.



The tower base must always be pinned before pressure is applied to the system.

Step 2: Pivot the tower upright on tower base for the correct pull angle (see figure 3).



Step 3: Move the tower roller to the desired pull height.

Figure 3

Step 4: Place the pull chain over the top of the tower roller, attach to pull clamp and slotted tower jaw. Remove any twist in the pull chain before applying pressure.



Always run the tower roller chain over the top of the pull chain. The roller chain will act as a safety catch if the chain or clamp breaks loose (see figure 4).

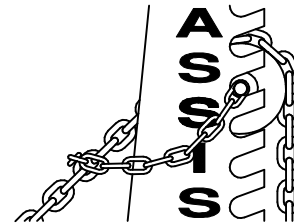


Figure 4



Use a safety chain, blanket, or tarp wrapped over the pull chain to minimize backlash if the chain or clamp breaks free.



Remove any twist in the pull chain before applying pressure.

Step 5: Use the foot pump (air/hyd) or the hand held control (elec/hyd) to apply pressure to the pull chain(s).



Do NOT position yourself or others close to, or in line with, chains, clamps, or other accessories while pressure is applied.



To prevent possible injury, inspect pulling clamps for damage and that the gripping surfaces are clean of debris prior to each use.



## AIR OPERATED PUMPS

# TROUBLE SHOOTING

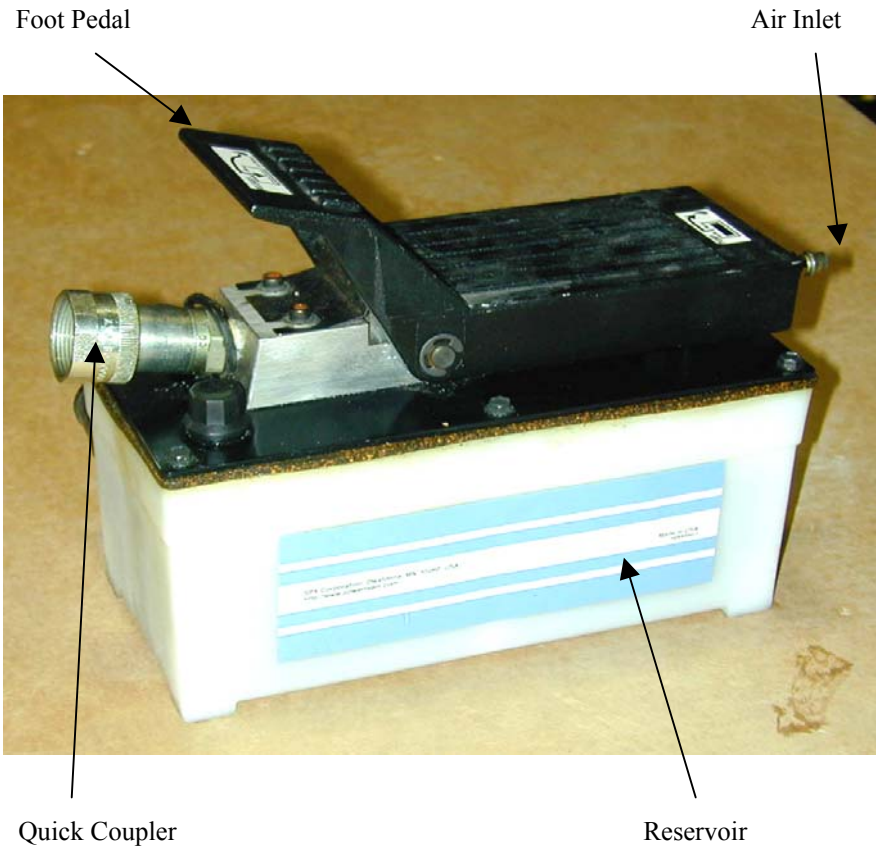
NOTE: All hydraulic systems need to be kept clean internally and externally in order to operate properly. The most common cause of dirt in the system is failure to clean the quick coupler ends prior to coupling them together.

NOTE: Air hydraulic pumps need to have proper air pressure to deliver the full output pressure. The pump should receive air supply from an inline filter/regulator/lubricator. This will supply clean air at the proper pressure (90 PSI minimum) and keep the pump lubricated. If an automatic lubricator is not on the air supply line, a few drops of SAE 10 oil may be placed in the air inlet weekly to provide lubrication for the pump.

#	PROBLEM	CAUSE	SOLUTION
①	Pump is operating but has no fluid delivery	Low fluid level	Add fluid
		Pump is not primed	Prime the pump by holding the pedal in release position while holding air inlet valve down for 15 seconds, if cylinder will not extend then repeat priming procedure
		Fluid inlet filter is dirty or clogged	Remove reservoir and clean filter
		The oil fill transfer plug has not been replaced with a vent plug.	Replace solid plug with vent plug
		Air inlet screen on the pump may be clogged	Remove air fitting and clean screen
②	Low or slow fluid delivery	Low air supply pressure	Air supply should be 20cfm at 90psi
		Fluid inlet filter is dirty or clogged	Remove reservoir and clean the filter
③	Pumps correctly but will not release	Improperly tightened quick coupler. Dirt in the coupler causes the check ball not to depress. This allows flow in one direction but not in the other.	Uncouple the quick coupler and clean. Retighten and try for proper operation
④	Pump won't hold pressure	The external components leak	Check for leaks in hose, cylinder & quick coupler. Tighten fittings
		Contaminant on the seat of the release valve.	Prime the pump (as talked about in problem #1). This will sometimes wash the contaminant from the seat. If priming works, the reservoir should be removed, drained, & cleaned. If this is not successful the contaminant is probably embedded in the seat & the pump needs to be sent in for repair
⑤	Oil leaks from cover area when pumping	Leaking piston seal in air motor	Return pump for repair
⑥	Oil leaks form cover area when releasing	Reservoir is too full. This can be cause by one pump used to pressurize the sysem and another pump used to release the system.	Drain fluid from reservoir until it is at the proper level

## TROUBLE SHOOTING GUIDE

### AIR OPERATED PUMPS



All hydraulic systems need to be kept clean and lubricated in order to operate properly. The quick coupler is the most common place for dirt to enter the system. If an automatic lubricator is not on the air supply line, a few drops of SAE 10 oil placed in the Air Inlet weekly will provide lubrication for the pump.

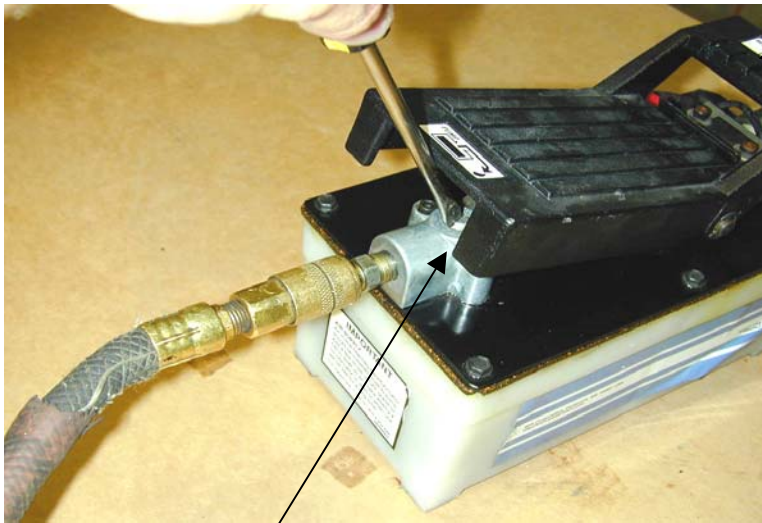
**NOTE:** For all other pump inquiries please refer to the manufacturers pump manual for more detailed information.

# TROUBLE SHOOTING GUIDE

(Refer to Trouble Shooting on page 7)

## AIR OPERATED PUMPS PROBLEMS - SOLUTIONS

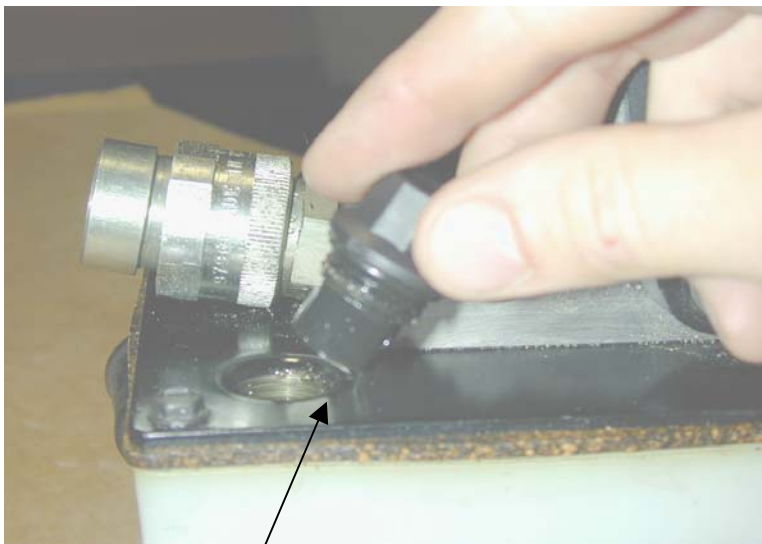
### PROBLEM #1 – Priming the pump



Hold pedal in release position

Hold inlet valve down for 15 seconds

### PROBLEM #1 – Replace solid plug with vent plug



Exchange (red) solid plug with (black) vent plug



# MAINTENANCE INSPECTION

## RECOMMENDED MAINTENANCE INSPECTIONS

<b>PUMPS</b>	Clean regularly, Lubricate weekly, Check oil level weekly, Change oil and clean filter yearly.
<b>HYDRAULICS</b>	Make sure cylinders have no sign of leaks, Replace seal if needed. Check that electrical wires are not damaged or frayed (electric pumps only), and that air hoses are not cracked (air pumps only).
<b>CHAIN</b>	Inspect the welds and links of chain for damaged links due to a twisted chain while making a pull.
<b>FLUIDS USED AIR &amp; ELECTRIC</b>	Good grade of hydraulic jack oil, 10 wt. hydraulic oil, Hydraulic Lite Oil, or ASW 32.
<b>FASTENERS</b>	Check all fasteners for tightness. Check the lifting mechanism and the clamp assemblies.
<b>TOWERS &amp; TOWER BASES</b>	Inspect the bolts which hold the tower upright to the tower base for any unusual wear. Also check the bolt on the tower puck which holds the tower base to the bed of the frame machine. To do this, first position the tower base in line with the access panel in the front of the machine and remove the access panel, next place a floor jack underneath the tower base to support the weight and check the bolt for tightness.





## **CHASSIS LINER WARRANTY**

- The structural components of Chassis Liner Company (CLC) surface mounted lifts are warranted to the original owner to be free from defects in material and workmanship under normal use for a period of one (1) year from the invoice date. CLC will replace those parts returned to the factory, which prove to be defective for the full warranty period.
- Power units and hydraulic cylinders are warranted for one (1) year from the invoice date against defective material when the product is installed and used according to CLC specifications. Electrical switches, air cylinders (if used), rolling jacks and turntables are warranted for one (1) year. Warranty obligation is limited to the repair or replacement of parts returned to the factory, freight prepaid, which prove upon inspection, to have been defective and have not been misused.
- The structural components of Chassis Liner Company manufactured frame racks are warranted to the original owner to be free from defects in material and workmanship under normal use for one (1) year.
- This warranty does not cover normal maintenance, cable and chain adjustments, and damage as a result of improper installation, abuse, misuse, overloading, negligence, or normal wear and tear, concrete floor problems, or defects caused by lack of required maintenance. This warranty does not cover equipment when repairs have been attempted or made by anyone other than a CLC authorized service representative.
- All parts must be returned freight prepaid and adequately packaged to prevent damage in transit.
- This warranty is exclusive and is in lieu of all other warranties expressed or implied including any implied warranty of fitness for a particular purpose, which implied warranties are hereby expressly excluded.
- In no event will the sales representative, wholesale dealer, CLC, or any company affiliated with it or them be liable for incidental or consequential damages or injuries, including but not limited to the loss of profit, rental or substitute equipment or other commercial loss purchaser's sole and exclusive remedy being as provided here in above.
- This warranty may not be enlarged or modified in any manner except in writing signed by an executive officer of CLC to improve its products whenever it is possible and practical to do so. CLC reserves the right to make changes and or add improvements at any time without incurring any obligation to make such changes or add such improvements to products previously sold.
- Persons who have been trained on its safe and proper use must only operate CLC products.
- Please contact your Regional Manager or our Service Manager for additional information.