INSTALLATION MANUAL & OPERATION INSTRUCTIONS

2 POST LIFT
SL 10,000 OH(P)

INSTALLATION Manual

SL 10,000 OH
SL 10,000 OHP
(Push Button Controls With Key Security Box)
(Manual Controls With No Key Security Box)

Heavy-Duty DualSymmetric 2 Post Lift
10,000 LB. Capacity

LIFT FEATURES:
• Commercial Grade
• Symmetric AND Asymmetric
  Two Lifts In One!
• Adjustable Height:
  11’ 6” Height Setting (Lower Ceilings!)
  12’ 5” Height Setting (Standard)
• Single Point Lock Release
• Screw-Up Lifting Adapters
• 5 YEAR LIMITED WARRANTY
• More Lifts Available!

Thank You For Your Purchase!

We reserve the right to make changes in specifications without notice and without making changes retroactive.

Call Today
EXTENDED
WARRANTY
Protect Yourself For An Additional 12 Months
“WARRANTIES GO AWAY EQUIPMENT STAYS!”

READ THIS MANUAL COMPLETELY BEFORE INSTALLING LIFT!!! KEEP THIS MANUAL NEAR THE MACHINE AT ALL TIMES AND MAKE SURE ALL USERS HAVE READ THIS MANUAL BEFORE OPERATING THIS MACHINE.

130 Commerce Park Dr.
Franklin, IN 46131
Sales: (317) 736-5094
Fax: (317) 738-0555
Email: Sales@CompleteHydraulic.com

www.CompleteHydraulic.com
### INFORMATION ABOUT THIS LIFT:

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Thank you for purchasing an Electro-Hydraulic Lift from the Complete Hydraulic Service & Sales, Inc. product line. This Lift has been constructed to the best quality safety standards. This manual is made in order to supply the owner, as well as all operators & users, with the basic instructions for the correct use of this lift. It is important that the owner, installers, and all users adhere to the guidelines set forth in this manual to ensure the correct, safe, use of this equipment, as well as ensure a long functional life for this product as well. It is recommended that this product is installed by a CHSSI authorized installer.

Read this guide with the utmost care before using the lift. This guide contains the instructions for installation, use and maintenance of our SL 10,000 OH / SL 10,000 OHP hydraulic two post lift systems.

Keep this guide as well as all other supplied technical literature in a safe place close to the Lift in order to allow users to consult it whenever necessary. The technical literature is an integral part of the Lift and it must always be kept with the product, especially in case of sale.

Again, follow the directions given by this guide with the utmost attention: the Manufacturer declines all responsibility for any damage due to negligence and non-observance of the instructions found within this manual. The non-observance of herewith-contained instructions will automatically involve the immediate lapse of warranty.

1.1 Intended Use

This Two-Post Lift is suitable for lifting motor vehicles having a maximum total weight of 10,000 lbs. (SL 10,000 OH). It is necessary to respect the parameters given by the “LOAD DISTRIBUTION CHART” (as foreseen by standard, EN 1493/98)

This Lift must only be used for which it is expressly designed. It is forbidden to lift people or other equipment not specified in this guide.

Any other use is to be considered improper and irrational and thus highly forbidden. The Manufacturer cannot be held responsible for any damage or injury caused by an improper use or by the non-observance of the following instructions:

- DO NOT INSTALL the Lift in windy sites or a potentially explosive room.
- The Lift, in its standard version, is not intended for outdoor use. In this case it is necessary to ask the constructor for a special version.
- For any installation to be made in a site different from what is specified, ask for the Manufacturer’s advice. Failure to get written authorization to install a Lift in any way not described within this manual will result in the immediate termination of the Lift’s Warranty!
- The technical literature is an integral part of the Lift. Read this guide carefully before using the Lift, because it contains very important safety rules for use and maintenance.

Keep this as well as all other supplied technical literature in a safe place and consult whenever necessary.
READ THIS BEFORE INSTALLING THE Lift!

Improper installation can cause injury or damage!

1. Read this installation and operation manual in its entirety before attempting to install the Lift. Manufacturer or Distributor assumes no responsibility for loss or damage of any kind, expressed or implied, resulting from improper installation or use of this Lift. Always use a Manufacturer Authorized Lift Installer to install your Lift.

2. All persons using this equipment must be responsible, qualified, and carefully follow the operation and safety guidelines contained in this manual.

3. A level floor is required for proper Lift installation and operation.

4. DO NOT install this Lift on any asphalt surface. Only on concrete surface that is a minimum of 4” - 6” thick and 3,000 psi tensile strength with steel or fiber mesh reinforcement. A Lift can only be as strong as its foundation!

5. DO NOT install this Lift over concrete expansion joints or cracks. (Check with your building architect.)

6. DO NOT install this Lift on an upper floor without written authorization from your building architect. This Lift should only be installed on the ground / basement floor.

7. DO NOT attempt to Lift only part of a vehicle. This Lift is intended to raise the entire body of a vehicle only. Lifting only part of a vehicle will bend the Lifting Arms and void the Lift’s Warranty.

8. DO NOT attempt to use the Overhead Beam to lift engines, or any other parts out of a vehicle! Doing so will bend the Overhead Beam and void the Lift’s Warranty.

9. NEVER Lift any persons or vehicles containing persons. This Lift is designed to lift empty vehicles only.

TOOLS FOR INSTALLATION

| Concrete Rotary Hammer Drill with 3/4” inch Carbide Bit |
| Rubber Hammer & Sledge Hammer (2 lb.) |
| Chalk Line & Square for creating a layout drawing |
| Sockets and Open End Wrenches |
| Ratchet Driver |
| Vise Grips |
| Measuring Tape |
| Screwdrivers |
| Torque Wrench |
| Step Ladder |
| Crane or Other Method to Raise Overhead Beam |
| 4’ Foot Bubble Level |
| 12” Inch Adjustable Wrench |
| AW – 32 Non-Foaming Non-Detergent Hydraulic Fluid (3 gallons) or ATF Equivalent |
# BOLT BOX CONTENTS

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WORKBENCH AREA

FRONT SIDE OF LIFT

Column Foot Print
16" X 22 1/4"
[406.5mm X 565mm]

11' 6"
[3,505mm]

MIDLINE
BASE LINE
MIDLINE

APPREACH SIDE
OF THE LIFT

7 7/8"
[200mm]

67"
[1,701mm]

23'
[7,010mm]

7 7/8"
[200mm]

67"
[1,701mm]

FOR THIS INSTALLATION, WE USED A 25 FOOT INSTALL BAY LENGTH, IF YOUR’S VARIES, RECALCULATE THE DISTANCE TO YOUR MIDLINE.

Note for Figure 2 - We recommend 12" (INCHES) between the Lift Columns and the nearest wall.
Introduction

Power LED:
- Light is on when key is turned to "ON".

Key Switch:
- Must be in "ON" position for the Power Unit to be powered on.

DOWN / LOCK Button:
- Use this button to lower the Lift. This button is also used to lower the Lift onto the Safety Locking system.
  *NOTE: To lower the Lift, you must first raise the Lift up off of the Safety Locks using the UP button.

UP Button:
- Used to raise the Lift
  *NOTE: This button must also be used to raise the Lift up off of the Safety Locks before the Lift can be lowered.

Manual Push Button (UP)

Manual Release Handle (DOWN)

1. UP Button - Used to raise the Lift
   *NOTE: This button must also be used to raise the Lift up off of the Safety Locks before the Lift can be lowered.

2. DOWN Handle / Lever - Use this Manual Release Handle to lower the Lift. This Lever is also used to lower the Lift onto the Safety Locking system.
   *NOTE: To lower the Lift, you must first raise the Lift up off of the Safety Locks & Disengaged the Locks using the Single Point Lock Release Handle before the Lift can be lowered.

NOTE: The SL 10,000 OHP comes with a "MRH" (Manual Release Handle) Power Unit, this unit serves as both the Power Unit and Control Box for your Lift. The differences between the SL 10,000 OH and SL 10,000 OHP are described throughout this manual.
STEP 1: Unloading Lift & Checking For Defects

Unload the Lift and place it near the intended installation location. Remove shipping bands and packing materials to allow the arms and overhead beam to be unpacked. Remove the packing brackets and bolts holding the posts to the end plates (end plates are shipping purposes only).

The Lift should be installed on a level floor with a minimum 4” - 6” of 3,000 psi concrete (sufficiently cured). Visually inspect the floor, **the Lift should not be installed on cracked concrete or over expansion joints.** The installed Lift will only be as strong as the foundation on which it is installed. It is best to test drill where the Lift is to be installed to verify the depth of the concrete. Lift must be installed on basement level or ground level of building.

STEP 2: Measuring Lift Area & Positioning

Note: For illustration purposes (in Figure 2) we used a 25 Foot Installation Bay (or installation area). Your installation area may vary.

1. Snap a chalk line down the center and the full length of the installation bay. This will be your Center Line.

2. Snap a chalk line across your installation bay where you want the center of your Columns to be. This is the Midline (See Figure 2). Make sure this Midline mark is parallel to the front and back of your door or installation area, as all other measurements are based on correct positioning of the Midline.

3. From the Midline, measure 67” to one side and make a mark, then measure from the marked line 134” to the other side and make another mark. (See Figure 2).

4. Measure 7 7/8” from the front and rear of the midline on both sides and snap two parallel lines (as in Figure 2). The line located at the “Back Side” of the Lift is the Base Line. (See Figure 2).

You should have a square layout area exactly like Figure 2. This is where you will install the Lift now.

STEP 2: Positioning & Leveling Columns

Before raising the Columns, attach the Column Extensions to the Columns in the desired height position (11’6” or 12’5”). Refer to page 29 for details on how to attach the Extensions. NOTE: The Equalization Cables ship in the 12’-5" position, if the Lift needs to be installed at the 11’-6” setting, the Cables must be repositioned in the Carriages, refer to the instructions below for more information.

**NOTE:** The Lift can be shortened 10” by lowering the Upper Column Extensions and adjusting the Equalizing Cables to the 11’6” setting inside the Carriage.

**TO LOWER THE LIFT TO THE 11’ 6" SETTING:**

Inside each Carriage, move the Cables from the bottom eyelets to the middle eyelets located inside the Carriage. The Cables are pre installed to the 12’ 5” setting from the factory (which are the bottom eyelets of the Carriages). This also lowers the Maximum Lifting Height of the arms unless you use it as an extension bar (not included) to adjust the Limit Switch height up or down for additional height. **Reference the pictures at the end of this manual to see the 11’ 6” height setting.** (This Limit Switch extension is not included. Should you need this, use a piece of flat steel 1/8” thick x 1” wide x 12” long. Drill 2 holes & mount your limit switch as necessary. With this extension this will give you more lifting height.
STEP 3: Positioning & Leveling Columns, & Installing The Overhead Beam (Continued)

Raise the Columns to vertical. Position them on either end of the layout square (See Figure 2). The “Main-Side” Column (or the “Power Unit Side” Column) will be on the right side (passenger’s side) of the layout square for standard settings.

Examine the area where the floor plates of the Columns are going to be anchored to the floor. Anchor holes in the floor plates should be at least 4” from any expansion joints or cracks in the floor.

Stand up Columns so that the Power Unit Side will be on the Vehicle Passenger’s Side. (See Figure 2). Use your four foot level, and the provided ¾” U-shaped shims, shim the Columns level, front-to-back and side-to-side. Re-check the Columns to see that they are facing each other square (As In Figure 2). If not, rotate the Columns as needed and be sure to keep the floor plates even within your layout square.

Check for clearance in the front and rear to be sure that when a car is on the Lift the garage door will open (we recommend a 23’ foot clear area) (See Figure 2).

Be sure to anchor one of the two Columns down into the ground level floor do not anchor 2nd column at this time. This will stabilize and keep the Column from falling. With only anchoring one Column down at this time you can now adjust the other Column and Overhead Beam to suitable means of width and stability. Once adjusted, level the Column and anchor the second Column to the ground level floor. After installing the Overhead Beam as below.

Installing the OVERHEAD BEAM & Overhead Safety Cut-off Bar:

(REFERENCE PICTURES AT END OF THIS MANUAL)

On the floor, assemble the “TWO” pieces of the Overhead Beam by sliding 1 inside the other. There will be 6 m10 Hex Head Bolt sets w/ Lock Washers & Flat Washers, you will use 2 on the front, 2 on the back, and 2 underneath to secure the two pieces together.

Now, bolt one of the L Brackets to the Overhead Beam with the short side facing the middle (See Example A). Take the Padded Safety Bar and slide one end into the L Bracket. Next, take the second L Bracket, slide it over the opposite end of the Padded Safety Bar and then bolt it onto the Overhead Beam, securing the Padded Cut-off Bar to the Overhead Beam. Finally, mount Grey Overhead Safety Cut-off Switch to the L Bracket closest to the Power Unit Side Post & position the Switch’s Arm so that it makes contact with the Padded Bar. Refer to the picture on the right and other pictures at the end of this manual for more detail.

Then, lift the assembled Overhead Beam to the top of the Columns using appropriate safety equipment and additional help as necessary. Hand tighten the nuts on the four bolts on each Column. (Some Lifts may have Hooks on the sides to hold the overhead beam up, while installing the bolts.)

Check the Columns again to see if they are level and (Continued on next page)
ENSURE THAT THE FITTING BELOW IS SEATED PROPERLY BEFORE PROCEEDING WITH INSTALLATION

The fitting at the bottom of each Column needs to be checked before operating this Lift. When transported, or when you raise up the carriages there will be a small chance that the cylinder may move from its proper location and the fitting shifts up from its proper position and rests on the lip of the Column’s slot, as noted in the picture below. The fitting attaches directly to the bottom of the cylinder, to reset the fitting, simply shift the cylinder over until the fitting drops into proper position. Cracked or broken fittings are not covered under your warranty, make sure you follow these steps.

ATTENTION!!!
PLEASE READ!

ENSURE THAT THE FITTING BELOW IS SEATED PROPERLY BEFORE PROCEEDING WITH INSTALLATION

THE BOTTOM OF THIS FITTING MAY GET STUCK ON THIS LEDGE! MAKE SURE TO CHECK THIS BEFORE OPERATING THE LIFT!

There should be ONLY a small gap between the bottom of the fitting and the Floor Plate (the picture to the left is CORRECT!), it should not rest on the surface of the Floor Plate!

In the picture above, the Cylinder is seated correctly.

When the Alignment Pin pictured on the cylinder above is inside the hole at the bottom of the Floor Plate (as it should be), the bottom of THIS fitting will rest just above the top of the Floor Plate!

ATTENTION!

This Fitting will come PREINSTALLED onto the Cylinder in each Column.

Make sure this Alignment Pin is inside the hole on the bottom of the Floor Plate before raising the Lift.

Check top for space between the Columns and Overhead Beam. You should have less than ¼” between them. If you have more, tighten nuts on the Overhead Beam on both sides and re-level the Columns.
DOUBLE-CHECK EVERYTHING NOW THE NEXT STEP IS PERMANENT!

STEP 4: Installing Anchor Bolts & Re-leveling Columns

You will need a rotary hammer drill with a 3/4” carbide masonry bit (most rental outlets carry them). Your concrete floor must be at least 4” - 6” thick and a minimum of 3,000 psi. Drill down through the Ten 3/4” Floor Plate holes into the concrete, drilling all the way through the floor. Install the nut and flat washer on the Anchor Bolt before putting them in the holes. Be careful not to move the Columns when drilling. To avoid this happening, drill each hole one at-a-time and also place the Anchor Bolts in one at-a-time as you drill to help void the Column from possibly moving.

Note: The threads on the anchors may be a little exposed above the base of the Lift when they are tightened into the correct depth of concrete flooring. Remember that you will need 4-6” thick concrete.

Recheck the level of each Column and place shims around each Anchor Bolt and wherever they’re needed. If ½ inch or more of shim is required, either refinish concrete or use steel plates and extra long anchor bolts (FOR EXTRA PLATES OR LONGER ANCHORS, CALL YOUR LIFT DISTRIBUTOR). Tighten anchor bolts and recheck for level and plum. Hammer the anchor bolts all the way down.

Tighten anchor bolts using a torque wrench to 125 ft. / lbs. (DO NOT use an air, electric or battery impact gun when tightening the Anchor Bolts!)  

NOTE: 4” - 6” of reinforced concrete is the minimum requirement for installation area.

Recheck the level of the Columns. If the Columns are off level at this point, loosen the anchors and use a pry bar to tilt the Columns and shim as needed. Retighten and check again. When satisfied as to level, tighten all the Anchor Bolts. It is best to hold the top of the Anchor Bolts with vice grip type plyers, then tighten down. You must retorque your anchors every 30 days to insure they are tight.

(REFERENCE PICTURES AT END OF THIS MANUAL) Double-check and tighten the Upper Support Beam (Overhead Beam).
STEP 5: Installing & Adjusting Equalizer Cables

Using at least two people, a forklift or a shop crane, lift each carriage to the second or third lock. Now is a good time to check and see if your cylinder pull’s out of position at the Hydraulic Fitting, if so, reposition the cylinder back to its proper location at this time. Allow each carriage to rest on the locks and measure each side to be sure they are at the same height. In some cases, remove the two ¾” lock nuts from the cables. Place the nuts on each carriage for easy access when needed. **Be sure each carriage is at the same height by measuring from the bottom of the carriages. This dimension must be within ¼” on each side.**

With your back to the overhead door to the floor and standing between the Columns, turn to your left. This is the “left” Column. The side closest to the front wall will be the “front” side and the side closest to the overhead door will be called the “back” side (See Figure 2). Grab one cable end and run it over the Left Front Pulley on the Columns, down through the slot inside the Column and through the hole in the corner of the carriage. Drop the end on the floor, grab the end and put a flat washer and 2 nuts on it. **NOTE: Put one nut on the cable bolt before sliding the bolt through the mounting hole, then, slide the washer on the bolt and tighten the second nut onto the bolt to ensure cable is secured to the Carriage Eyelet.**

Tighten the nut about two/thirds of the way onto the cable end. Grab the other end of the same cable and run it over the top of the Front Right Pulley, down through the slot and straight down inside the carriage to the floor. Run the cable under the pulley on the bottom, up through the carriage and into the hole in the corner of the carriage. Pull the end through the hole. Make sure the other cable end is now sitting in the hole in the other carriage. If you see less than 2” of the cable end sticking up, you can install a flat washer and nut, otherwise go back to the left side and tighten the nut more to take up the slack. (See Figures 3 & 4). Install the other cable in the same fashion, starting from the right side and running it over the back pulleys.

**FIGURE 3**

Run cable to the eyelet on top of the Carriage in opposite Column.

A = Fasten Here For The 12’ 5” Setting
B = Fasten Here For The 11’ 6” Setting
C = The other end of each cable is attached to the opposing carriage’s top eyelet.
STEP 5: Installing & Adjusting Equalizer Cables (Continued).

**Note for Figure 4:** Do not over tighten cables. This could damage the sheaves or cables.

With both cables in place, you are ready to adjust. Start on the left side. With a pair of vise grips, grab the bottom of the cable end with the threads pointing down. Place a ¾" or 11/16" socket or wrench on the nut and tighten it until the opposite carriage raises a ¼". Tighten the other side the same way until it comes back down ¼", then give it one full turn. Both cables should now have the same tension, much like a banjo string. When the Lift is in operation the Locks should click at the same time, or close to each other. If not, adjust the Cables as necessary.

**NOTE:** IT IS THE CUSTOMER’S OR THE END USER’S RESPONSIBILITY TO MAINTAIN THE PROPER TENSION ON THE EQUALIZER AND/OR OVERHEAD SAFETY RELEASE CABLES. ASKING A QUALIFIED LIFT TECHNICIAN TO RETURN IN THE FUTURE TO MAINTAIN THE CABLE ADJUSTMENTS AFTER THE LIFT IS INSTALLED WOULD NOT BE UNDER WARRANTY FOR THE ADJUSTMENTS.

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**Figure 4**

CABLE #1 FINISH
THE FRONT-TOP (OR MIDDLE DEPENDING ON COLUMN HEIGHT SETTING - SEE FIGURE 3)
EYELET OF THE LIFT CARRIAGE

CABLE #2 FINISH
THE BACK-TOP (OR MIDDLE DEPENDING ON COLUMN HEIGHT SETTING - SEE FIGURE 3)
EYELET OF THE RIGHT CARRIAGE

CABLE #1 START
THE FRONT-BOTTOM (OR MIDDLE DEPENDING ON COLUMN HEIGHT SETTING - SEE FIGURE 3)
EYELET OF THE LIFT CARRIAGE

CABLE #2 START
THE BACK-BOTTOM (OR MIDDLE DEPENDING ON COLUMN HEIGHT SETTING - SEE FIGURE 3)
EYELET OF THE RIGHT CARRIAGE

THE CABLES DO NOT CROSS!!!
READ STEP 5 FOR INSTRUCTIONS ON RUNNING THESE CABLES! DO NOT ALLOW CABLES TO CROSS EACH OTHER.
STEP 6: Overhead Safety Lock Release Cable

Install the 2 small brackets with the round rollers on top of each column extension for the safety release cable. If preinstalled, remove the 2 safety release covers on each side of each Column. Take the loop end of the safety cable and place it over bolt sticking out of the side of the lock on the DRIVERS SIDE column. Now run the wire up over the top on the relevant rollers at the top of both columns. Now, make a loop around the PASSENGER’S SIDE lock bolt and use the "U" clamp and make the correct adjustment to release the safety locks by pulling the handle to release locks. (Note: Make sure this is not too tight, preventing the lock from returning to its correct position.)

STEP 7: Mounting The Limit Switches*

Safety Lock Release Limit Switches:
Your Lift will come with 2 Limit Switches that have molex style connectors and a 296" Y Cable. One Switch will be mounted to each Lock Assembly on each Column, correct placement of these Switches is pictured to the right. Mount the 2 Switches to the Mounting Plates using the 4 m4 x 8mm Flat Screws. The 296" Y Cable will connect these two Switches, make sure that the double connection side of the Y Cable is connected to the Switch on the Power Unit Side. Then, run the cable up the Column, through and across the Overhead Beam and down the opposite Column to the second Switch. Reinstall the Safety Lock Covers. (Make sure the wire is not wrapped around the cables, hoses and tape as necessary.)

Carriage Cut-off Switch:
There is a Limit Switch that is to be mounted to the top of the Power Unit Side Column (See Example C). Use 2 of the provided m4 x 8mm Flat Screws. The Switch will be mounted to the inside of the Carriage, and the Flat Screws will go through the Carriage from the opposite side of the Carriage to secure the Switch in place. See Example C to the right, for reference. You will need to adjust the arm on the switch to stop the carriages at the proper height you want the Carriage to stop.

Overhead Safety Bar Cut-off Switch:
The Overhead Safety Bar Cut-off Switch is mounted to the L Bracket closest to the Power Unit Side Column. This Switch should have been mounted in Step 3 when the Overhead Beam was assembled, if not, mount the Switch to the L Bracket as shown in pictures at the end of this manual, and check to insure it works after wiring the Lift.

STEP 8. Mounting The Power Unit

Mount the Power Unit to the Power Unit Side Column. There will be a mounting bracket with 4 holes. See pages 16 - 17 for pictures and more instructions on how to mount the Power Unit. DO NOT WIRE THE ELECTRICAL FOR THE POWER UNIT AT THIS TIME!

STEP 9. Running The Hydraulic Hoses

Run all Hydraulic Hoses and secure all Hydraulic Fittings using instructions detailed on page 15. Fill the Power Unit Hydraulic Reservoir with 3 gallons of Hydraulic Fluid. Use (AW-32 Hydraulic Oil or Dexron III Automatic Transmission Fluid or Equivalent).

STEP 10. Wiring The Power Unit & Hooking Up Electrical

NOTE: (SEE REFERENCE PICTURES & DIAGRAMS ON THE FOLLOWING PAGES AND AT THE END OF THE MANUAL FOR REFERENCE). Refer to the Wiring Diagrams starting on page 16 for instructions on wiring the Power Unit and Control Box (if applicable). Begin by installing the pre-assembled Control Harnesses on the Power Unit Side Column. Then run the Electrical Cables alongside the Main Hydraulic Lines. These Wiring Harnesses can be wired tied to the Hydraulic Lines for support! Refer to the wiring diagram for detailed wiring instructions. ANY ELECTRICAL POWER TO THE LIFT CONTROL BOX AND POWER UNIT SHOULD BE DONE ONLY BY A QUALIFIED ELECTRICIAN.

THE POWER UNIT SHOULD NOT BE CONNECTED TO THE MAIN POWER LINES UNTIL ALL OTHER WIRING HAS BEEN COMPLETED AND THE RESERVOIR HAS BEEN FILLED WITH HYDRAULIC OIL!

Please reference the electrical diagrams throughout this manual for the electrical hook-up. It should be done ONLY BY A CERTIFIED ELECTRICIAN. The Power Unit requires 208-220 volts, single phase, on a dedicated 20 amp circuit breaker.

PAGES 15 - 21 HAVE DIAGRAMS AND PICTURES TO REFERENCE COMPONENT INSTALLATION AND WIRING, INSTALLATION INSTRUCTIONS CONTINUED ON PAGE 22
RUN THE HYDRAULIC HOSE THROUGH THE OVERHEAD BEAM AND CHECK NOTHING IS RUBBING THE HOSE.

NOTE: "*" represents estimated measurements of HOSE. These measurements are subject to change at anytime.

**313" HOSE**
Attach one end of the 313" Hose to the top of the "T" Block Fitting and the other end of the Hose to the 90º Cylinder Fitting at the bottom of the Column opposite the Power Unit, make sure the cylinder is positioned correctly in its proper location (See Page 10).

"SEE 313" HOSE DESCRIPTION AT BOTTOM OF PAGE TO SEE IF YOU NEED TO USE THE 20" HOSE EXTENSION!!

**19" HOSE**
Attach one end of the 19" Hose w/ the 90º Fitting to the middle of the "T" Block Fitting and the other end to the "P" Port (if you have a SPX Power Unit, refer to Page 21 for more instructions) on the Power Unit.

ATTENTION!
When Installing Hydraulic Hoses, ensure that there is a secure connection, but it is vital that you DO NOT OVERTIGHTEN THE HYDRAULIC FITTINGS! If you overtighten the fittings, breakage may occur that will damage the hydraulic connection causing it to leak!

**80" HOSE**
Attach one end of the 80" Hose to the bottom of the "T" Block Fitting above the power unit and the other end to the 90º cylinder fitting at the base of the column on the Power Unit side.

"313" Hose
This hose connects on the Power Unit side to the top of the T-Block, or to the 20" Hose Extension, and then runs over top of the Lift to the bottom of the opposite Column and connects to the Fitting at the bottom of the Column.

"20" Hose
Use this Hose to extend the 313" Hose ONLY if your Lift is at the 12'-5" Height Setting - if you are using your Lift at the 11'-6" setting, store this Hose away for use in the future if you decide to raise the Lift to the 12'-5" setting.

"19" Hose
Connect the Straight Fitting side of this Hose to the T-Block as illustrated above, attach the opposite end that has the 90º Fitting to the "P" Port on the Power Unit (if you have an SPX Power Unit, refer to page 21 for instructions on which Port to use.

"80" Hose
Connect one end of this Hose to the T-Block, and the other end of this Hose to the Fitting at the bottom of the Column on the Power Unit side.
**DID YOUR LIFT COME WITH THIS ELECTRIC KEY CONTROL BOX?**

**IF SO, USE THE INSTALLATION DIAGRAM BELOW!**

The SL 10,000 OH will include the Control Box pictured to the left. There is a variation of this model, the SL 10,000 OHP. The OHP does not include the Control Box to the left, and will come with a different type of Power Unit. Make sure to use the correct instructions when installing your Lift that matches!

**INSTALLATION OF MAJOR LIFT COMPONENTS:**

- **Overhead Safety Cut-off Bar & Mounting Plates**
  (See details to the right)

- **2 Lock Release Cable Sheaves**
  Allen Bolt Set: m6-1.0 x 20mm - 4 Sets
  Mount a Sheave on the top of each Column as pictured to the left. Each Sheave is mounted using 2 sets of the m6 20mm Bolts.

- **Carriage Cutoff Switch**
  Phillips Flat Screw: m4 x 8mm - 2 pcs.
  Two Screws for each of the two Switches, drive the screws from the opposite side of the Column through the mounting holes in the Switch at the top of the Column.

- **Lock Release Cable**
  After mounting the Lock Release Cable Sheaves at the top of each Column, run the Cable from one Lock Release Assembly, up the Column, over both Sheaves, back down the other Column to the 2nd Lock Release Assembly. Secure the Cable using the U Bolt.

- **2 Switches, 1 is mounted under the Safety Lock Cover on each Column.**

- **Lock Syncing Switches**
  Phillips Flat Screw: m4 x 25mm - 4 pcs.
  Two Screws for each of the two Switches, screw in the screws from the opposite side of the mounting plate through the mounting holes into the Switch.

- **Overhead Cut-off Bar & Switch**
  Phillips Flat Screw: m4 x 25mm - 2 Pieces
  After mounting the Overhead Cut-off Bar, you will mount the Switch pictured to the left to the Mounting Plate closest to the Power Unit Side Column. Line the switch up with the mounting holes, make sure that the Switch Activator rests on top of the Cut Off Bar as pictured to the right and test that it is working.

- **Safety Lock Release Handle**
  Unscrew the Knob from the Handle, screw the Handle into position with the Lock Cutoff, put the Lock Cover back on, and finally, reattach the Knob to the Handle.

- **NOTE:** The Power Unit for your Lift may be different than the one pictured Here. No matter what type of Power Unit you received with your Lift, it will be mounted to the Column the same way.

- **Overhead Cut-off Bar & Mounts**
  Allen Bolt Set: m10-1.5 x 20mm - 4 Sets
  Mount one of the Mounting Plates pictured to the left to the underside of the Overhead Beam, slide the Overhead Cut-off Bar into the mount, then slide the second Mounting Plate onto the Bar and mount that Plate to the underside of the Overhead beam.

- **Carriage Cutoff Switch**
  After mounting the Overhead Cut-off Bar, you will mount the Switch pictured to the left to the Mounting Plate closest to the Power Unit Side Column. Line the Switch up with the mounting holes, make sure that the Switch Activator rests on top of the Cut Off Bar as pictured to the right and test that it is working.

- **Phillips Flat Screw**
  m4 x 25mm - 4 pcs.

- **Hex Bolt**
  m8-1.25 x 20mm - 4 pcs.

- **Run Hoses like this, only on 12’5” setting. 11’6” setting will rip the hoses from the fittings.**
**SAFETY LOCK LIMIT SWITCHES**

Safety Lock Limit Switch Wiring: The two Limit Switches mounted onto the Safety Lock Assemblies on each Column.

(SEE PG. 16 FOR INSTRUCTIONS ON MOUNTING THESE SWITCHES)

**5 WIRES RUN OUT OF THE CONTROL BOX. USE THE INFO. BELOW TO DETERMINE HOW TO RUN THESE WIRES FOR THE LIFT. BE SURE TO USE A QUALIFIED ELECTRICIAN TO MAKE THESE CONNECTIONS**

- **24” Cable w/ Female 2-Pin Molex Connector**
  - This Cable runs to the Safety Lock Limit Switch under the blue cover on the same side that the Control Box & Power Unit is mounted to.

- **120” Cable w/ 2 Male Bullet Disconnects**
  - This Cable runs up the Power Unit Side Column & forms a 3-way connection with the Overhead Switch & Carriage Switch.

- **45” Cable w/ Female 3-Prong DIN Connector**
  - This DIN Connector runs to the Solenoid mounted to the Manifold on the Power Unit.

- **48” 3 Wire Electrical Cable**
  - This Electrical Cable runs to the Junction Box on the Power Unit. First, remove Junction Box Cover. There will be 2 Wires coming out of the Power Unit (color may vary depending on the Power Unit) and there will also be a Grounding Screw on the Motor Body. Next, inside the Box, remove the knock-out hole from the side / top (depending on model) of the Junction Box, install a Strain Relief in the hole (AGAIN, ALL OF THIS WILL BE DONE BY A QUALIFIED ELECTRICIAN ONLY!), and then run the 48” Cable from the Control Box into the Junction Box. Connect the Green Wire using the Grounding Screw to the Motor’s Body. Finally, connect the remaining 2 wires from the 48” cable to the 2 wires coming out of the Motor (do not worry about matching colors, all that matters is that the wires are paired together and securely connected, like the picture to the right).

- **180” 3 Wire Electrical Cable**
  - Have a qualified electrician run this 180” wire to a Quick Disconnect Box, then to your Main Power Source on a 208-220 Volt Single Phase connection on a Dedicated 20 Amp Breaker.

**INSTRUCTIONS FOR MOUNTING ALL SWITCHES CAN BE FOUND ON PG. 16**

- **296” Y-Cable w/ three Male 2-Pin Molex Connectors**
  - This Cable runs up the Column, over top of the Lift, down the opposite Column to the Safety Lock Switch.

**CARRIAGE CUT-OFF SWITCH & OVERHEAD SAFETY BAR CUT-OFF SWITCH WIRING**

The “120” Cable out of the Control Box runs up the Power Unit Side Column and is connected in a 3-Way configuration with these two Switches.

**HYDRAULIC POWER UNIT WIRING**

- **120” Cable from Control Box**
- **1 Female Bullet Disconnects**
- **2 Female Bullet Disconnects**

**INSTALLATION OF THE ELECTRICAL POWER CABLES IS TO BE DONE ONLY BY A CERTIFIED ELECTRICIAN. BEFORE THE POWER UNIT IS INSTALLED, HAVE THE ELECTRICIAN WIRE A QUICK DISCONNECT BETWEEN THE MAIN POWER BREAKER BOX AND THE CONTROL BOX, THEN HAVE THIS QUICK DISCONNECT MOUNTED TO THE SIDE OF THE COLUMN NEXT TO THE POWER UNIT NOT USING TO LONG OF BOLTS THAT WILL CAUSE THE INSIDE DAMAGE ON THE CARRIAGE.**
NOTE: "*" represents estimated measurements of CABLES. These measurements are subject to change at anytime.

Wiring Diagram:
(See Previous Page For More Detail)

1. *24" Cable w/ Molex Connector, Plug into double connector side of the *296" Y-Cable. Second connector on that side is connected to the 1st Safety Lock Limit Switch. Run the Cable over the Overhead Beam, down the opposite side, and connect to the 2nd Safety Lock Limit Switch.

2. *120" Cable with 2 male Bullet Disconnects. This Cable runs up the Power Unit Side Column and is connected to the Carriage Limit Switch & Overhead Safety Bar Cut-off Switch in a 3-way series to create a complete circuit. Note: The Overhead Safety Bar Switch should be mounted closest to the Power Unit Side Column.

3. *180" 3 Wire Cable. Connects to a Quick Disconnect (installed by a Certified Electrician). The Quick Disconnect is then run to the main Power Supply - 208 - 220V Single Phase on a 20 Amp Breaker.

4. *45" Cable w/ 3 Prong Female DIN Connector. This DIN Connector is fastened to the Solenoid on your Power Unit as pictured on the previous page.

5. *48" 3 Wire Cable. This runs to your Power Unit. SEE INSTRUCTIONS STARTING ON PAGE 20 FOR DIRECTIONS FOR THE POWER UNIT YOU RECEIVE WITH YOUR LIFT.

**This wire runs up over the Overhead Beam along with the Hydraulic Hose.**

**Never hold the Down Button on the Safety Release Handle.**

**Refer to the previous 2 pages for a more detailed overview of the installation of these components and how to wire them.**

**Warning: All wiring should be done by a certified electrician only!**
IF YOUR LIFT DOES NOT HAVE THIS OPTIONAL CONTROL KEY BOX, SEE NOTE BELOW.
If your Lift came with the Manual Down Release Handle Power Unit, use the wiring instructions below.

Diagram 1
Overhead Safety Switch
Mounted to the Overhead Safety Bar Bracket With Two Screws On The Power Unit Side Column.

Diagram 2
Carriage Limit Switch
Mounted to the inside of the Power Unit Side Column at the top with two Screws.

The wiring for your Power Unit and Switches should only be done by a Certified Electrician!

Connect either wire from the Overhead Safety Switch to the Black Wire on the top of the Push Button Switch.
Connect the White Wire from the 220 Volt Breaker Box to the White Wire 2nd terminal down on the Switch.
Connect one Motor Wire to the terminal marked “C” on the Switch.
Connect one Power Wire from your 220 Volt Breaker Box to the center terminal marked “N.O.” on the Switch.
Connect the other Power Wire from your 220 Volt Breaker Box to the other wire from the Motor.

Wire from the 220 Volt Breaker Box:
- White Wire is connected straight to the Power Unit.
- Black Wire runs through the 2 Switches before connecting to the Power Unit.
- The Green Wire is connected to the Grounding Screw inside the Junction Box.

Quick Disconnect
This will be installed by Electric Lines and hand mounted to the Power Unit Side Column.

THIS IS YOUR 220 VOLT AC INCOMING POWER SUPPLY OFF OF A 20 AMP BREAKER.
DO YOU HAVE THIS STYLE HYDRAULIC POWER UNIT?

IF SO, SEE NOTES BELOW!


Remove the junction box cover on the motor by removing the short screw. Run your electrical power wires from the main breaker box with 220 volt single phase on a Dedicated 20 Amp Breaker.

Remove the knock out hole on the side/top (depending on the type of Power unit) electrical box on the motor. Line the hole with a Strain Relief. Now run your main power wires through the knock out hole on the side/top of the Motor Junction Box (commonly referred to as the “Pecker Head”) to make the electrical connection to the switch wires inside the box.

SEE PAGE 18 OR 19 FOR WIRING TO SWITCH, DEPENDING ON IF YOU HAVE A KEY SECURITY CONTROL BOX.

Attach the Green wire to the ground screw on the motor in the back of the Power Unit junction box.

Put the junction box cover back on after the wiring is complete.
DO YOU HAVE THIS STYLE HYDRAULIC POWER UNIT?
IF SO, SEE NOTES BELOW!

(INSTALLATION OF THE ELECTRICAL TO THE POWER UNIT IS TO BE DONE ONLY BY A CERTIFIED ELECTRICIAN. BEFORE THE POWER UNIT IS INSTALLED, HAVE THE ELECTRICIAN WIRE A QUICK DISCONNECT BETWEEN THE MAIN POWER BREAKER BOX AND THE CONTROL BOX, THEN HAVE THIS QUICK DISCONNECT MOUNTED TO THE SIDE OF THE COLUMN NEXT TO THE POWER UNIT.)

Remove the junction box cover on the Motor.
Run your electrical power wires from the Main Breaker Box with a 220 Volt Single Phase on a Dedicated 20 Amp Breaker.
Remove the knock out hole on the side/top (depending on the type of Power unit) of the Junction Box on the Motor. Line the hole with a Strain Relief. Now run your main power wires through the knock out hole on the side/top of the Motor Junction Box to make the electrical connection to the switch wires inside the box.

SEE PAGE 19 FOR WIRING TO SWITCH.
Attach the Green Wire to the Ground Screw on the Motor in the back of the Motor Junction Box.
Put the Junction Box Cover back on after the wiring is complete.
STEP 10: Installing Lifting / Swing Arms
For standard setting, slide the Two Stage Long Lifting (Swing) Arms between the end of the C Bracket on the Carriage closest to the vehicle approach side of the Lift, and slide the 3 Stage Short Lifting (Swing) Arms onto the Carriage front C Brackets at the front of the Lift. Slide in the 4 long Steel Arm Pins. Attach one or the other (Snap Rings, C-Clips or Roll Pins to the Arm Pins) to ensure that the Pins do not back out of the Lifting Arms in the future. Attach 4 Arm Safety Restraint Gears with the 3 Bolts and Lock Washers to the arms. Ensure they are meshing together correctly & locking the Arms into place. Adjust as necessary to ensure each of the 8 arm restraint gears are locking together to keep the Arms from moving when the Pad is not touching the proper points on the bottom of the vehicle. Review and adjust gears daily or as necessary. Arm restraints are only for holding the Arms in place till the Pad is centered on the proper manufacturers lifting points of the vehicle being lifted.

STEP 11. Installing Drop-in Pads & Checking Height Adapters
The Drop-in Pads consist of a Base Pin that is circular with a flat side (to lock it in place) and 2 Internal Screws that can be extended up and down. The Snap Rings will act as stops to stop the Screw Pads from screwing out of the Base. NEVER USE THE SCREW-UP PADS IF THE SNAP RINGS ARE MISSING, IT IS UNSAFE! NOTE: Truck Adapter Extensions are available in 4” or 6” heights through your lift dealer. In some cases, they are needed on special vehicles or special applications for keeping the vehicle leveled during lifting. Never lift any vehicles without using Truck Adapters when the screw up pad will not reach the proper manufactures lifting points. When this happens, always use the proper Truck Adapters.

STEP 12. Testing & Adjusting Lift
If Lift Has A Solenoid Controlled Power Unit w/ Key Security Control Box:
With the electric power properly hooked up and hydraulic oil in the pump reservoir, push the UP Button to raise the Lift as high as it will go. Release the UP Button and then pull the Single Point Lock Release Handle to release the Safety Locks. NOTE: If the Lift is currently sitting on the Locks, you will have to raise the Lift up off of the Locks before you will be able to release the Locks. After the Locks have been released, press and hold the DOWN Button down on the Key Security Control Box and lower the Lift to the floor, holding the Safety Lock Release Handle all the way down. Keep holding the DOWN down button for 10 Seconds to remove air in the system.

If Lift Has A Manual Down Release Handle Power Unit:
With the electric power properly hooked up and hydraulic oil in the pump reservoir push the UP Button on the Power Unit to raise the Lift as high as it will go. Release the UP Button and then pull the Single Point Lock Release Handle to release the Safety Locks. NOTE: If the Lift is currently sitting on the Locks, you will have to raise the Lift up off of the Locks before you will be able to release the Locks. After the Locks have been released, push the Manual Down Lever and lower the Lift to the floor. Keep holding the Release Lever for 10 Seconds to remove air in the system.

All Lifts:
RUN THE LIFT ALL THE WAY UP AND DOWN TWO MORE TIMES, USING THE SAME PROCEDURE, TO GET ALL AIR OUT OF THE SYSTEM. (YOU WILL KNOW WHEN ALL OF THE AIR IS OUT OF THE HYDRAULIC LINES WHEN YOU DO NOT SEE OR HEAR ANY BUBBLING IN THE HYDRAULIC RESERVOIR.
While running the Lift, listen to the Safety Locks clicking. Each side should click simultaneously or within a ½ second of each other. If they are not clicking together, adjust the Equalization Cables to compensate by tightening the side that is clicking last at the cable bolt at the top of the carriage. The one that is behind is the one you tighten until you get it clicking simultaneously.

REMEMBER: DO NOT OVER TIGHTEN CABLES! THEY SHOULD BE FIRM, MUCH LIKE A BANJO STRING OR A FAN BELT IN A CAR.

YOUR LIFT INSTALLATION IS NOW COMPLETE AND YOUR LIFT IS READY TO USE! TAKE TIME TO REVIEW YOUR INSTALLATION: CHECK THE HYDRAULIC LINES AND WIRING, CHECK THAT ALL BOLTS / SCREWS ARE TIGHTENED APPROPRIATELY, AND ENSURE THAT ALL INSTRUCTIONS HAVE BEEN FOLLOWED CORRECTLY! POSITION THE VEHICLE CORRECTLY WHEN LIFTING IT. MAKE SURE NOT TO OVER WEIGH THE VEHICLE ON THE FRONT ARMS OR REAR ARMS. OVERLOADING THE LIFT COULD CAUSE DAMAGE TO THE LIFT NOT COVERED ON THE WARRANTY TO THE OPERATOR.
GENERAL SAFETY INSTRUCTIONS BY A AUTHORIZED CHSSI LIFT INSTALLER

- ALWAYS make sure the Lift is on the Locks before going under the vehicle and vehicle is level.
- NEVER allow anyone to go under the Lift when raising or lowering.
- Care must be taken, as burns can occur from touching hot parts.
- Do not operate equipment with a damaged cord or if the equipment has been dropped or damaged until a qualified serviceman has examined it.
- To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids.
- Adequate ventilation should be provided when working.
- Keep hair, loose clothing, fingers, and all parts of the body away from moving parts.
- To reduce the risk of electrical shock, do not use on wet surfaces or expose to rain.
- Use only as described in this manual.
- Use only Manufacturer’s Recommended Parts & Authorized Installer.
- ALWAYS WEAR SAFETY GLASSES.
- NEVER allow unauthorized personnel to operate Lift.
- ALWAYS know the gross weight of vehicle.
- NEVER EXCEED CAPACITY OF (10,000 LBS.) ON THIS LIFT.
- NEVER use the Lift to raise one end or one side of vehicle. This will bend the Lifting Arms and void your warranty.
- ALWAYS keep unqualified people away from area while loading, unloading, raising, or lowering the Lift.
- NEVER allow anyone to ride in the vehicle while raising, or lowering the Lift.
- ALWAYS keep the area clean and free of water grease, and oil,
- ALWAYS remove wheel chocks, tools, hoses, etc. before loading, unloading, raising, or lowering the Lift.
- NEVER operate the Lift if the Safety Locks are not working properly!
- NEVER operate the Lift without the Stop Snap Rings secured on the Screw-up Lifting Pads.
- Ensure Round Pads or Truck Adapter Pads are evenly centered on the Lifting Frame. Pads that are bent or broken due to misuse or not centered are not covered by Warranty.

LIFT OPERATING INSTRUCTIONS

Swing the Front Arms to the front and the Rear Arms to the rear. Once arms are in position, pull a car into the bay. A general rule of thumb is to stop the car with the center of the wheelbase even with the center of the Columns. (*NOTE: Some vehicles will be heavier in the front due to the engine. In these cases, position the vehicle so that the vehicle’s weight distribution on the Lift’s Columns is 50% Front to Rear of the vehicle. *REMEMBER, the DualSymmetric Arms on the SL 10,000 OH / OHP allows for either 50/50 or 30/70 vehicle distribution!) Swing the four Lifting Arms under the vehicle and position the Lifting Pads under the appropriate manufacture lifting points. *(If you are not sure of the proper manufacture lifting points, you should check the vehicle’s service manual or contact the vehicle manufacturer).

Adjust the Screw Pads so they all hit their manufacture lifting points at the same time with full contact to the center of the Pad. This will allow the car to be level when rising. With the Pads in their proper locations and no obstructions around the Lift or vehicle, you may now press the UP Button on the Power Unit or the UP Button on the Key Security Control Box (depending on the type of Lift you have) to raise the vehicle.

Raise the vehicle so that the tires are 6 inches off the ground. Walk to 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 Lifting Screw 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 Arms & Pads to balance the load. Repeat this process until the vehicle is completely stable. When the vehicle is stable, you may raise the Lift all the way to the top. Listen to Safety Locks clicking evenly and adjust if necessary (Never adjust the Cables without it setting on the Locks).
CORRECT POSITIONING OF LIFTING ARMS:

Follow the instructions on the previous page for operating your Lift. Make sure to always extend the Arms in the correct order, never extend a later stage of the Arm before all of the stages before it are extended all the way out. ALSO, NEVER PUT MORE OF A VEHICLE’S WEIGHT ON THE FRONT ARMS THAN ON THE REAR ARMS!

NEVER Extend Stage 3 of the Front Arm Before Stage 2 is Fully Extended! The Arms are to be extended in order to reach vehicle lifting points. Extend Stage 2 FIRST, and ONLY extend Stage 3 AFTER Stage 2 has been fully extended and more length on the Front Arm is still needed!

The 3 Stage Front Arm should NEVER be extended out farther than the 2 Stage Rear Arm! NEVER LIFT A VEHICLE WITH THE ARMS IN THIS CONFIGURATION!

CORRECTLY USING THE LIFTING PADS:

This Lift’s Lifting Pads extend in 3 Stages by screwing up or down. It is important to use the Pads correctly when operating this Lift. ALWAYS makes sure that the Pad’s screws are raised in the correct order: ALWAYS extend Stage 2 BEFORE extending Stage 3! NEVER Extend Stage 3 without fully extending Stage 2!

Operators must make sure to position the Lifting Pads to the Vehicle Manufacturer’s Recommended Lifting Points correctly! The Manufacturer’s Lifting Points MUST BE CENTERED on the Lifting Pad. NEVER lift a vehicle when the Lifting Pad only makes contact with the Lifting Point at the edge of the Pad! Always, CENTER the Manufacturer’s Lifting Points on the Pad! If the Lifting Pads do not Screw Up high enough to reach the vehicles Manufacturer’s Lifting Points you should use Truck Adapters to make up the voided space. Truck Adapters can be purchased through your Lift Distributor. Never lift a vehicle without the Pads touching the Manufacturer’s Recommended Lifting Points.

CORRECTLY RAISING & LOWERING SCREW-UP PADS:

CORRECTLY CENTERING WEIGHT ONTO THE SCREW-UP PADS 6” OR 4”:

OPERATORS MUST ENSURE THAT THE VEHICLE MANUFACTURES LIFTING POINTS ARE CENTERED ON THE LIFTING PAD EVERY TIME THEY LIFT A VEHICLE ON ALL 4 PADS!
THE PROPER OPERATION OF THE LIFT REQUIRES THAT ANY TIME YOU RAISE A VEHICLE TO WORK ON IT, YOU MUST LOWER THE LIFT ONTO THE SAFETY LOCKS. This is done by raising the vehicle to the desired height and lowering the Lift by pressing the Red Button (on the SL 10,000 OH) or the Release Valve Handle (on the SL 10,000 OHP) until the carriage stops on the next available Safety Lock. Note: The Power Unit is not made to hold the load and may bleed down on the locks - this is normal, ALWAYS let the Lift down onto the Safety Locks.

To lower the vehicle, you must first raise the Lift off of the Locks using the UP Button (either the UP Button on the Control Box or the UP Button on the Power Unit, depending on what model you have). Then, engage and hold the Release Valve Handle on the Power Unit / Red Button on the Key Security Control Box (again, depending the model Lift you have) until the Lift is on the ground. You must pull the Safety Lock Handle to release the Locks after raising up off the Locks then lower the vehicle.

MAINTENANCE SCHEDULE

The following maintenance is recommended and required in these intervals; accumulated hours or monthly period, whichever comes sooner. If you hear a noise or see any indication of possible failure - cease operation immediately and correct and/or replace parts as required. Following these maintenance procedures is the key to prolonging the useful life or your lift.

AT ANY TIME, IF YOU ARE NOT SURE OF THE SAFE OPERATION OF THE LIFT, DISCONTINUE USING IT AND CALL YOUR AUTHORIZED LIFT INSTALLER FOR ASSISTANCE. WARNING: OSHA AND ANSI REQUIRE USERS TO INSPECT LIFTING EQUIPMENT AT THE START OF EVERY SHIFT. THESE AND OTHER PERIODIC INSPECTIONS ARE THE RESPONSIBILITY OF THE USER / OPERATOR.

DAILY PRE-OPERATION CHECK BY OPERATOR

The user should at least perform the following checks daily and not use the Lift if anything is not correct.

- Daily check of all Safety Locks & Arm Restraints - the discovery of device failure could save you from expensive property damage, lost production time, serious personal injury and even death.
- Check Safety Locks for free movement and full engagement with Lift, make sure the Arm Restraint Gears mesh together completely and are working 100% each and every time the Lift is used. If not, do not use the Lift.
- Check Hydraulic Connections, and Hoses for leakage.
- Insure Snap Rings at all Rollers, Sheaves and on all Screw-up Pads & optional Truck Adapters are correct and safe.
- Check All Bolts, Nuts, and Screws and tighten.
- Check Wiring & Switches for damage and that they all work correctly.
- Check for any stress cracks in the concrete floor near the Anchor Bolts which, if present, could cause the Anchor Bolts to loosen and pull out of the floor. Do not use the Lift if this is apparent.
- Check daily Anchor Bolts torque to 125 ft-lbs. Do NOT tighten using impact gun. NEVER use the Lift with loose Anchor Bolts! All Anchor Bolts should be the correct torque specifications.
- Ensure all Cables are on all Pulleys at all times.

(Continued. Pg 26)
Check Equalization Cables: The Cables keep both sides of the Lift equal allowing the Safety Locks to catch together. If one side of your Lift is running ahead of the other, it is most likely time to adjust your Cables. Follow this simple procedure. Refer to Pages 12-13 Step 5 for adjustment! So the Locks are always locking every time.

All of the Pulleys / Sheaves on your Lift should be sprayed with a light oil such as WD-40 or similar lubricant, two to three times a year.

**WEEKLY MAINTENANCE**

- Check anchor bolt torque daily to 125ft. lbs.
- Check floor for stress cracks near anchor bolts
- Check hydraulic oil level.
- Check and tighten all bolts, nuts, and all screws.
- Check all Cables are on all the proper Pulleys at all times.
- Grease the inside of the Columns, where the Carriages run up and down.

**YEARLY MAINTENANCE**

- All of the Pulleys / Sheaves on your Lift should be sprayed with a light oil, such as WD-40 or similar lubricant, two to three times a year.
- Check all Cables are on all the proper Pulleys each time you use your Lift.
- Change the hydraulic fluid - good maintenance procedure makes it mandatory to keep hydraulic fluid clean. No hard fast rules can be established; - operating temperature, type of service, contamination levels, filtration, and chemical composition of fluid should be considered. If operating in dusty environment a shorter interval may be required.
- Grease the inside of the Columns, where the Carriages run up and down.

*All repairs should only be performed by a CHSSI Authorized Lift Installer.*

- Replacement of Hydraulic Hoses.
- Replacement of Cables and Sheaves.
- Replacement or rebuilding Hydraulic Cylinders.
- Replacement or rebuilding Power Unit Pumps / Motors.
- Checking Hydraulic Cylinder Rods and Rod Ends (threads) for deformation or damage.
- Checking Cylinder Mounting for looseness and /or 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 before 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.
<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Causes</th>
<th>Suggested Solution</th>
</tr>
</thead>
</table>
| 1. Motor won’t run | • Fuse or circuit breaker.  
• Incorrect voltage to motor  
• Wiring connections  
• Burned out micro switch  
• Burned out motor windings | • Replace blown fuse or reset circuit breaker  
• Supply correct voltage to motor  
• Check and repair or insulate all connections  
• Replace micro switch  
• Replace motor |
| 2. Motor runs, won’t raise Arms | • Open lowering valve  
• Pump is sucking air  
• Suction tube is off of Power Unit  
• Low oil level  
• Pressure adjust to low | • Repair or replace lowering valve  
• Tighten all hydraulic line fittings  
• Adjust or replace hydraulic line  
• Top-off tank  
• Call Technical Service |
| 3. Motor runs, Arms raise but not vehicle | • Motor is running on low voltage  
• Debris in lowering valve  
• Improper relief valve adjustment  
• Overloading of Lift  
• Pressure adjust to low | • Supply correct voltage to motor  
• Clean lowering valve  
• Call Technical Support  
• Check vehicle weight or balance load properly  
• Call Technical Service |
| 4. Lift settles down slowly | • Debris in check valve  
• Debris in lowering valve  
• External oil leaks | • Clean check valve  
• Clean lowering valve  
• Check for and repair any leaks |
| 5. Lift goes up unevenly | • Equalizer cables not properly adjusted  
• Lift installed on uneven floor | • Adjust cables according to manual  
• Shim column (not more than 1/2”) or adjust swivel pads to compensate |
| 6. Anchor bolts won’t stay tight or are pulling out of floor | • Cement thickness or strength is insufficient  
• Holes are too big for anchors | • Remove bad cement, pour new pad per Lift specs in manual  
• Relocate Lift using the proper size drill bit, or pour anchoring cement into holes to secure anchors |
| 7. Safety latches don’t work | • Safety not adjusted properly  
• Safety spring not connected or weak  
• Flat washer bent too far, squeezing release cable  
• Safety latch is rusted or frozen | • Raise Lift until safety adjusting bolt appear in window and adjust as necessary  
• Reconnect or replace safety spring  
• Bend flat washer away from release cable until it moves freely  
• Spray penetrating oil on latch and work the latch until it moves freely |
| 8. Cylinder whines or chatters | • Dry or tight cylinder seals | • Replace seals or hydraulic cylinder |
| 9. Oil Leaks | • Breather End of Cylinder  
• Rod End of Cylinder  
• Power unit  
• Seals bad or rolled | • The piston seal of the cylinder is out. Rebuild the cylinder  
• The rod seal of the cylinder is out. Rebuild the cylinder  
• If leaking around the tank-mounting flange, check the oil level in the tank. The level should be two inches below the flange of the tank. Check with a screwdriver  
• Rebuild the Cylinder |
| 10. Lift jerks going up and down | • Air in hydraulic system  
• Dry or tight Seals | • Raise Lift all the way to top and return to floor. Repeat 4-6 times. Do not let this overheat Power Unit!  
• Use for 60 day break in period |
LIMITED LIFT WARRANTY

THIS LIMITED WARRANTY IS NOT TRANSFERABLE FROM THE ORIGINAL RETAIL PURCHASER.

No warranty exists until each piece of equipment is completely paid in full and the Lift Warranty Sheet has been returned to the manufacture or master distributor.

Power Units are covered for defects in workmanship for one (1) year. Any misuse of Power Unit will void this Warranty. For Power Unit Warranty repairs the original purchaser needs to provide the following information: (1) Date code of the Power Unit, (2) Serial Number of the Power Unit, and (3) Model Number. In cases of Power Unit replacements, you will be sent a replacement Power Unit after billing your charge card. It is the Original Purchaser’s responsibility to properly drain and box the defective Unit, tag it, and call UPS to pick it up and have it shipped back to us. After receiving the Power Unit back to our facility, an inspection will be made to the Unit to insure it was defective from the Manufacturer. If it is the manufacture’s defective Unit, we will credit your credit card back, less any shipping. Failure to follow these procedures will void the Power Unit warranty and any credit to your credit card.

Any wearable Lift part is not covered under warranty, such as Cables, Slide Blocks, Arms, Pullies, Pins, Adapters, Pads, Switches, Hoses, & Fittings unless authorized by the manufacturer, and which was not found to have been abused, will be repaired or replaced (at the Manufacturer’s option). Defects caused by ordinary wear and tear, abuse, misuse, overloading, accident (including shipping damages), improper maintenance and alterations are not approved by the Manufacturer or Master Lift Distributor are specifically excluded.

The Manufacturer reserves the absolute right to decline responsibility for repair work made or attempted by any Company or Person not associated with, or approved beforehand, by the Manufacturer. This Lift must be installed by a CHSSI Authorized Installer. Not having this Lift installed by an Authorized Installer voids the Warranty.

WARRANTY LABOR IS NOT INCLUDED UNDER WARRANTY. UNLESS EXPRESSLY APPROVED BY THE MANUFACTURER, IN WRITING, BEFORE THE REPAIRS ARE ATTEMPTED.
Attach the Overhead Bar to both Columns as illustrated using 4 Hex Head bolts for each Bracket.

Mount 1 L-Bracket onto Overhead Beam and insert Cross Bar into both Brackets before mounting the second L-Bracket onto the Overhead Beam.

Mount the Safety Switch to the Power Unit Side Bracket with the screws provided (See Picture on Page 30) and wire the Switch as illustrated on the wiring diagram on page 17.

NOTE: Make sure the wire from the Switch is only 4” long. Have an Electrician attach the correct size wire to the Switch Pig Tail & run down to the Power Unit to complete a Safety Circuit. See Page 16 for more instructions on mounting these Switches!
THIS IS HOW YOUR OVERHEAD SAFETY BAR SWITCH SHOULD LOOK.
IT GOES CLOSEST TO THE POWER UNIT COLUMN.
VIEW THE WIRING DIAGRAM ON PAGE 17 TO COMPLETE THE HOOK UP AND MAKE SURE YOU HAVE THE GRAY COLORED SWITCH.
There are 2 height settings for the SL 10,000 OHP, 12'5" and 11'6", to change the Lift's overall height settings, move the Column Extensions up or down.

Note: The Equalization Cables on the SL 10,000 OHP ship at the 12' 5" height setting.

REFER TO PAGES 12-13 FOR INSTRUCTIONS ON HOW TO ROUTE THE CABLES PROPERLY.
Wiring Detail for SL 10,000 OH with Electric Control Box.

(These steps may already be finished, please read below and only follow these instructions if this has not already been done on your Lift.)

A. Find & remove the nut from the Long Steel Valve Stem. Slide the Black Solenoid Coil from the Hydraulic Valve Stem.

B. Install the Valve Stem into the large hole on the left side of the Power Unit & tighten with a little torque. Slide the Large Black Solenoid Coil back over the Valve Stem and snug the nut.

C. Take the approx. 40" Pig Tail Wire from the Gray Electrical Box that has only a Black & White Wire in the loom.

D. Unscrew the Phillips Screw on top of the DIN Connector and gently pull the Connector off the prongs of the Coil.

E. Separate the Black DIN Connector Cap with a small Screwdriver on the top revealing the 3 Set Screws with the numbers on them 1-4.

F. Slide the Black & White Wire through the DIN Connector and place the Black Wire into the #1 Screw Hole & place the White Wire into the #2 Screw Hole and tighten both Screws down on the Wires.

G. The Male Spade is only a Guide Pin for realignment of the connector.

H. Reassemble the Black DIN Connector and line up the prongs and push them together making a final connection. Now tighten the Small Phillips Screw on the top of the DIN Connector.
Remove 4 Phillips Screws & the Cover from the Electrical Box.

Mount the Electrical Key Box to the Lift Column with four (4), 1” metal screws. These screws are counter sunk in the same holes as the Front Screws.

Reinstall the Electrical Cover and there is no need to be back in this box!
This is with the Lift set on the 11' 6" setting.

NOTE: The Limit Switch should be attached to the 2 empty screw holes at the bottom of the page by the Cable Release for the 11' 6" setting. However, this is an adjustable setting depending on your ceiling. Make an extension (not included) if you want more height by raising the blue & gray Limit Switch. (Pictured Here)

Now this is adjustable to your ceiling height.

NOTE: Make sure that the Wires, Cables and Hoses are ran to the side as pictured here to prevent the Carriage from hitting and ripping / damaging the Hoses when raising to the top of the Carriage!
This is for the 12’ 5” setting!

**NOTE:** Pay attention to the Hose & Wiring being pushed up by the Carriage when the Lift is raised. The Carriage should NOT hit the Hose & Electrical Wires and pull them from their connections if the Switch is adjusted correctly when raised.

Adjust the Switch as necessary to stop the Carriage when it hits the Switch.
I would like to introduce you to COMPLETE HYDRAULIC SERVICE & SALES, INC. We are a Hydraulic Lift Company specializing in Automotive Equipment, as well as many other aspects of the Hydraulic Industry, see our enclosed “Sales Flyer” for more information. This introduction comes to you as an invitation to be part of our Special Distributor Program in your area that will include a “Protected Territory”.

We can offer you Special Lift Prices as a Distributor at an UNBELIEVABLE $1,999.95 with a Power Unit. With this Special Pricing you will maintain a “Protected Territory” and “FREE FREIGHT” with any container orders to your door with a 12-20 piece order. Please see the SL 10,000 OH / SL 10,000 OHP Lift Brochure we have enclosed detailing specifications of this particular Lift, or visit our web site at www.CompleteHydraulic.com. This Lift comes with a 5 Year Structural Warranty and a 1 Year Limited Warranty on the Hydraulics and Electrical. “WOW!” We sell over 500 Lifts per month and are looking for Distributors to increase this count to reach beyond all boundaries. Payments and Open Credit Options are based on Credit Approval. In addition, we have 2-Post Base Plate Lifts, 4-Post Portable Lifts, Motorcycle Lifts, and 14,000 lb. Four Post & Alignment Lifts at UNBELIEVABLY low prices.

At this Low Low $1,999.95 Price, you have the opportunity to increase the Profits of your Business. I invite you to visit our Warehouse, at any time, or you may contact me personally for an appointment, 1-317-736-5094, 24 hours a day, 7 days a week to discuss this program. You may also find our web site helpful to familiarize yourself with our company at www.CompleteHydraulic.com or E-mail us at Sales@CompleteHydraulic.com.

WOW! $1,999.95

Commercial Grade Lift!!!

Free Freight With A 12-20 Piece Container Order!

SL 10,000 OH(P)
ATTENTION: MAIL TODAY TO ACTIVATE YOUR WARRANTY!

WARRANTY IS NON-TRANSFERABLE

Company Name: _______________________________________________________
Owner / Shop Manager: _________________________________________________
Address: __________________________________________________________________
Phone: (       ) _____________Fax: (       ) _____________Cell: (       ) _____________
City/State/Province/Zip: _________________________________________________
E-mail: __________________________________________________________________

SL 10,000 OH(P)

Model No.: SL 10,000 OH(P)
Capacity: 10,000 lbs.
Serial No.: __________________________________________________________________
Date: ____________________________________________________________________
Purchased From: ____________________________________________________________ Purchase Date: ______
Address: __________________________________________________________________
City: __________________________State: ___________________ Zip: _____
Office Phone: (       ) ____________________ Cell Phone: (       ) _________________

www.CompleteHydraulic.com