

LEGACY

1812A / 1812A14

10,000 LB. (ASYMMETRICAL)

READ THIS INSTRUCTION MANUAL THOROUGHLY BEFORE INSTALLING, OPERATING, SERVICING OR MAINTAINING THE LIFT. SAVE THIS MANUAL.



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DEC 2011 REV.A 6-2607

Table of Contents

1.0 SAFETY AND OPERATING INSTRUCTIONS	3
2.0 SPECIFICATIONS	5
3.0 PACKING LIST	6
4.0 INSTALLATION REQUIREMENTS AND TOOLS	
4.1 FOUNDATION 4.2 TOOLS	
5.0 INSTALLATION INSTRUCTIONS	
5.1 UNPACKING PROCEDURE	-
5.1 UNPACKING PROCEDURE	
5.2 GAT LATOUT	
5.4 SAFETY SHUT-OFF BAR INSTALLATION	
5.5 ROUTING OF EQUALIZATION CABLE	
5.6 ARM INSTALLATION	
5.7 ARM RESTRAINT INSTALLATION	
5.8 SAFETY RELEASE CABLE ROUTING AND ADJUSTMENT	
5.9 POWER PACK INSTALLATION	
5.10 HYDRAULIC SYSTEM INSTALLATION	
5.11 HYDRAULIC SYSTEM BLEEDING	
5.12 TOWER POSITIONING AND ANCHORING	
5.13 POSITION AND ANCHORING OF REMAINING TOWER	28
5.14 SAFETY SHUT-OFF BAR ADJUSTMENT	30
5.15 FINAL CHECK OF ASSEMBLED LIFT	
5.16 OPERATION TEST WITH VEHICLE	33
6.0 LIFT MAINTENANCE GUIDELINES	34
6.1 SAFETY INSTRUCTIONS	34
6.2 PERIODIC MAINTENANCE	34
7.0 SAFETY AWARENESS	34
8.0 PARTS LIST	
8.1 HYDRAULIC SYSTEM	
8.2 POWER PACK PARTS LIST:	46
9.0 AVAILABLE ACCESSORIES	49

1.0 SAFETY AND OPERATING INSTRUCTIONS

- 1. When using this lift, basic safety precautions should always be followed, including the following.
- 2. Read all instructions in this manual and on the lift thoroughly before installing, operating, servicing or maintaining the lift.
- 3. Inspect lift daily. Do not operate if it malfunctions or problems have been encountered.
- 4. Never attempt to overload the lift. The manufacturer's rated capacity is shown on the identification label on the power side column. Do not override the operating controls or the warranty will be void.
- 5. Before driving vehicle between the towers, position the arms to the drivethrough position to ensure unobstructed clearance. Do not hit or run over arms as this could damage the lift and/or vehicle.
- 6. Only trained and authorized personnel should operate the lift. Do not allow customers or bystanders to operate the lift or be in the lift area.
- 7. Position the lift support pads to contact the vehicle manufacturers recommended lifting points. Raise the lift until the pads contact the vehicle. Check pads for secure contact with the vehicle. Check all arm restraints and insure they are properly engaged. Raise the lift to the desired working height.
- 8. Some pickup trucks may require an optional truck adapter to clear running boards or other accessories.
- 9. **NOTE:** Always use all 4 arms to raise and support vehicle.
- 10. Caution! Never work under the lift unless the mechanical safety locks are engaged.
- 11. Note that the removal or installation of some vehicle parts may cause a critical load shift in the center of gravity and may cause the vehicle to become unstable. Refer to the vehicle manufacturer's service manual for recommended procedures.
- 12. Always keep the lift area free of obstruction and debris. Grease and oil spills should always be cleaned up immediately.
- 13. Never raise vehicle with passengers inside.
- 14. Before lowering check area for any obstructions.
- 15. Before removing the vehicle from the lift area, position the arms to the drive-thru position to prevent damage to the lift and /or vehicle.
- 16. Do not remove hydraulic fittings while under pressure.

For additional safety instructions regarding lifting, lift types, warning labels, preparing to lift, vehicle spotting, vehicle lifting, maintaining load stability, emergency procedures, vehicle lowering, lift limitations, lift maintenance, good shop practices, installation, operator training and owner/employer responsibilities, please refer to "Lifting It Right" (ALI/SM) and "Safety Tips" (ALI/ST).

For additional instruction on general requirements for lift operation, please refer to "Automotive Lift-Safety Requirements For Operation, Inspection and Maintenance" (ANSI/ALI ALOIM).

Installation shall be performed in accordance with ANSO/ALI ALIS, Safety Requirements for Installation and Service of Automotive Lifts.



<u>ATTENTION!</u> This lift is intended for indoor installation only. It is prohibited to install this product outdoors. Operating environment temperature range should be 41 - 104 °F (5 - 40 °C). Failure to adhere will result in decertification, loss of warranty, and possible damage to the equipment.

SAFET	/	If attachments accessories of
	CTIONS	configuration modifying
INSTRU	CHUNS	components that
		are located in the
listing or affect inter this lift and, if they a certification of this li participant for inform	peration of the lift, affect inded vehicle accommod are not certified for use of ift shall become null and mation pertaining to cer guration modifying com	dation are used or on this lift, then the d void. Contact the tified attachments

2.0 SPECIFICATIONS

Capacity: Capacity per arm: Overall Width: Width Between Columns: Drive-Thru Width: Overall Height: Under bar Clearance: Height to Lowered Lift Pads Height to Lift Pad (3" Adapter): Height to Lift Pad (6" Adapter): Front Arm Retracted Length: Front Arm Extended Length: Rear Arm Retracted Length: Rear Arm Extended Length: Maximum Lifting Height (6" Adapter): Lift Time: Power Requirements (Standard):

10 000 lbs.	4536 kg		
2500 lbs	1134 kg		
140 ¾"	3575 mm		
106 ¾"	2709 mm		
871⁄2"	2222 mm		
144"	3658 mm		
140"	3556 mm		
4 3/8"	112 mm		
7 5/8"	193 mm		
10 3/8"	264 mm		
23 3/4"	603 mm		
45"	1143 mm		
35 1/8"	891 mm		
57 ½"	1461 mm		
79 5/8"	2022 mm		
45 seconds			
230 Volts AC, 1 Ph., 60 Hz			
20 Amps			

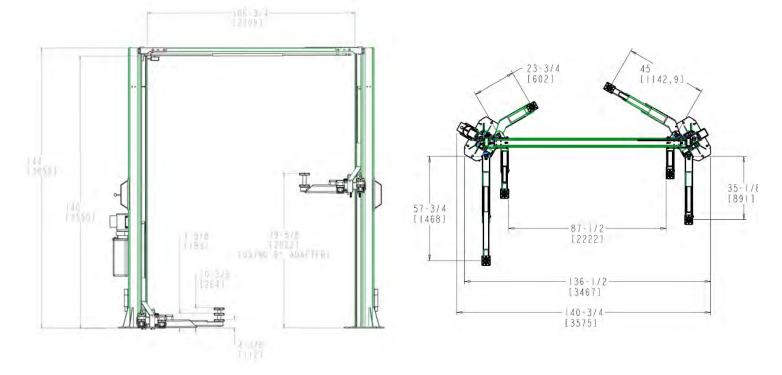


Figure 1 - Front View

Figure 2 - Top View

3.0 PACKING LIST

The complete lift is contained in two (2) packages:

- 1. The main structural components are packed in a steel frame.
- 2. The remaining parts are packed in an **accessory box**.

3.1 Main Structural Components

- 1pc. Power side tower and carriage assembly
- 1pc. Slave side tower and carriage assembly
- 1pc. Crossmember
- 1pc. Actuator Bar w/ foam

3.2 Accessory Box

- 4pcs. Locking Arm Assembly w/arm pins
- 2pcs. Safety Covers w/Decals
- 1pc. Hardware Package w/Packing List
- 1pc. Actuator Extension
- 1pc. Actuator Mounting Bracket
- 1pc. Power Pack
- 4pc. Arm Restraint
- 4pc. Stack Pad Assembly
- 4pc. Stack Pad Adapter (3")
- 4pc. Stack Pad Adapter (6")
- 1pc. Safety Release Cable
- 1pc. Hydraulic Hose (Long)
- 1pc. Hydraulic Hose (Short)
- 2pcs. Equalizing Cable w/Hex Nuts
- 1pc. ALI manual "Lifting It Right"
- 1pc. Automotive Lift Safety Tips
- 1pc. Automotive Lift, Operation, Inspection and Maintenance manual
- 1pc. "ALI" Quick Reference Guide
- 1pc. Owner's manual
- 1pc. Safety Shut-off Microswitch Assembly (Components)

4.0 INSTALLATION REQUIREMENTS AND TOOLS

4.1 FOUNDATION

IMPORTANT: It is the user's responsibility to provide a satisfactory installation area for the lift. Lifts should only be installed on level concrete floors with a minimum thickness of four and a quarter inches (4¼") or 108 mm. Concrete must have a minimum strength of 3000 psi or 21 MPa and should be aged thirty (30) days prior to installation. Please consult the architect, contractor or engineer if doubt exists as to the strength and feasibility of the floor to enable proper lift installation and operation.

It is the user's responsibility to provide all wiring for electrical hook-up prior to installation and to insure that the electrical installation conforms to local building codes. Where required, it is the user's responsibility to provide an electrical isolation switch located in close proximity to the lift that will enable emergency stop capability and isolate electrical power from the lift for any servicing requirements.

4.2 TOOLS

Tools Required

- a. 16ft. Measuring Tape
- b. Chalk Line
- c. Rotary Hammer Drill
- d. 3/4" diameter Masonry Drill Bit
- e. Hammer
- f. SAE Wrenches and Ratchet Set
- g. 2ft. Level
- h. 4ft. Level
- i. Crow Bar
- j. 12ft. Step Ladder
- k. Side Cutters
- I. Screwdrivers
- m. 4" x 4" Wooden Blocks (for unpacking)

n. Wherever LOCTITE symbol is shown, apply LOCTITE #242 on required fasteners. If fasteners are removed reapply LOCTITE before re-installing.



5.0 INSTALLATION INSTRUCTIONS

When the lift arrives on site:

- Read the owner's manual and make sure the installation instructions are fully understood.
- Check for any freight damages.
- Check the contents of the accessory and hardware boxes to make sure no parts are missing.
- Gather all the tools listed above.

5.1 UNPACKING PROCEDURE

- 1. **Important!** Place the main structural components on wooden blocks so that the steel shipping frames can be removed.
- 2. Remove the plastic wrapping.
- 3. Remove the crossmember, and the actuator bar.
- 4. Unbolt the steel shipping frames.
- 5. Lay each tower on the floor with the carriage side up.
- 6. Check the installation area for obstructions. (Lights, Heating Ducts, Ceiling, Floor Drains, etc.)

5.2 BAY LAYOUT

- 5.2.1 Prepare the bay by selecting the location of the lift relative to the walls.
- 5.2.2 Clear the installation area of all packaging materials to avoid trip hazards.
- 5.2.3 Measure midpoint of door.
- 5.2.4 Using measuring tape scribe two arcs, equal distance from the midpoint.
- 5.2.5 The centerline of the lift occurs between the intersection of the arcs and the midpoint of the door. Refer to Figure 3.
- Note: Leave any additional room for any desired aisle or work area.

Recommended clearance around lift is three feet (3 ft) and above lift is four inches (4"). Ensure clearance conforms to local building and fire codes.

- 5.2.6 Measure the specified distance (156") to draw a second chalk line at 90° for locating the lift towers. Refer to Figure 4.
- 5.2.7 The lift is centered between the door and the walls of the area.

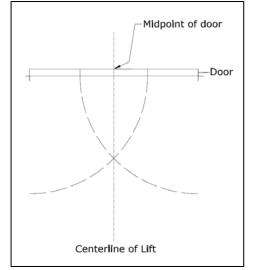


Figure 3. Chalk line

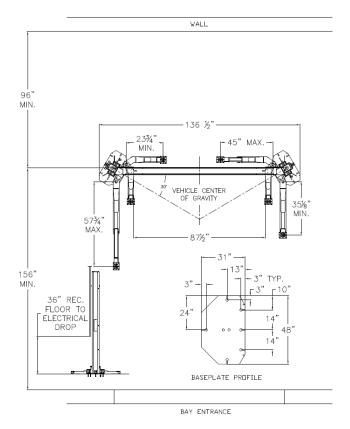
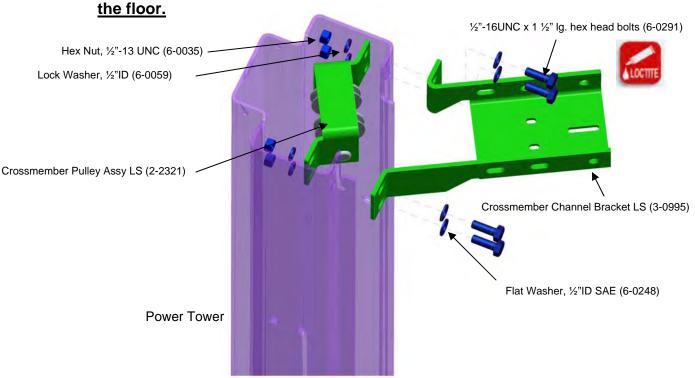


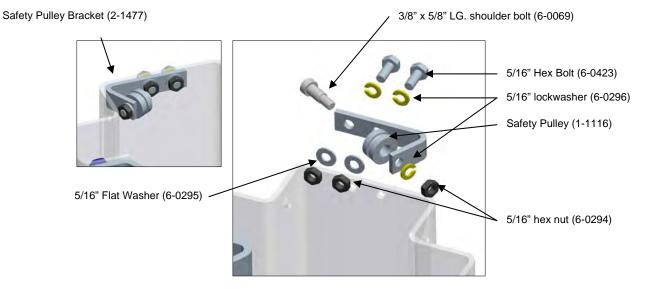
Figure 4. Bay Layout

5.3 CROSSMEMBER INSTALLATION

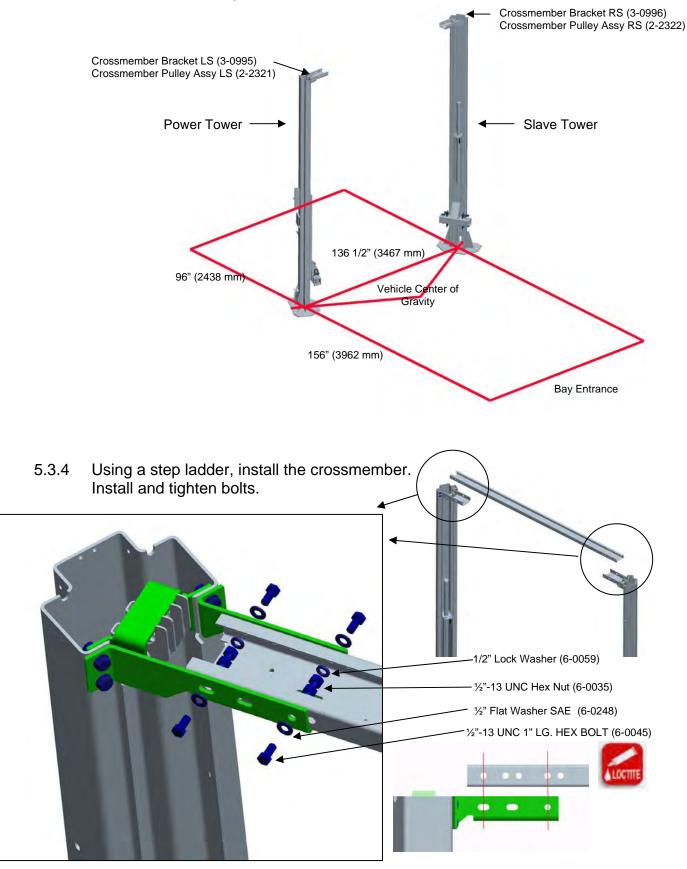


5.3.1 Install the cross member bracket to the two towers. While it is still on the floor.

5.3.2 Install the safety pulley bracket complete with pulley on each tower.



5.3.3 Stand towers in the position shown.

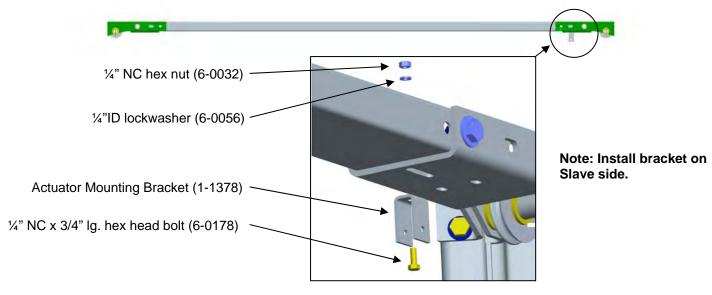


5.4 SAFETY SHUT-OFF BAR INSTALLATION

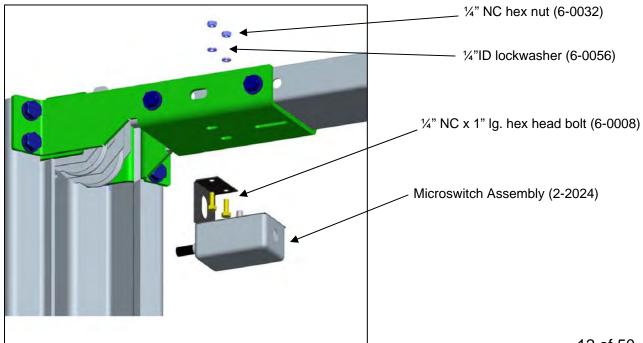
The safety shut off will disconnect the power to the power pack when an obstruction touches the padded bar or the carriages reach their maximum height. The safety shut off switch is factory pre-wired.

* Note: Bolt pattern for crossmember brackets may not be as shown – See section 5.3 for installation.

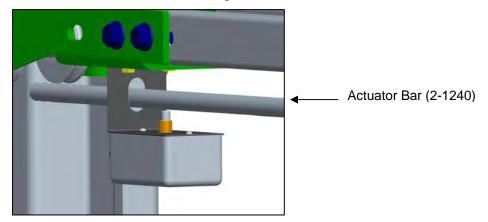
5.4.1 Attach the Actuator Mounting Bracket (1-1378) to the crossmember



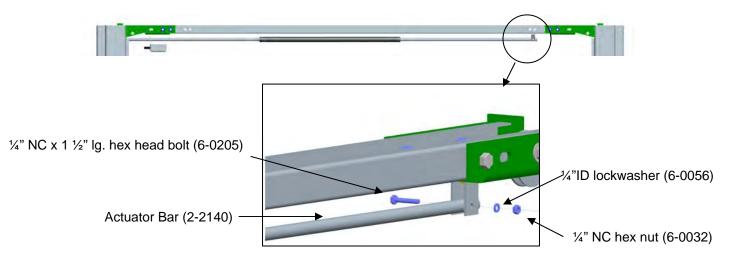
5.4.2 Attach the Microswitch Assembly (2-2024) to the crossmember.



5.4.3 Slide the Actuator Bar through the Switch Bracket.

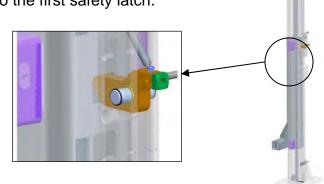


5.4.4 Attach the Actuator Bar to the Actuator Mounting Bracket.



5.5 ROUTING OF EQUALIZATION CABLE

5.5.1 Manually lift the carriages to the first safety latch.



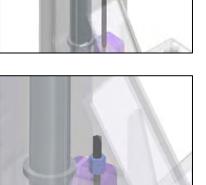
5.5.2 Remove equalizing cables (1-1473 *12ft) from the accessory kit box, and 8 ½"- 13UNC nuts from a polybag in the hardware kit box.

Insert the short threaded stud through the 9/16"dia. hole at the bottom of the carriage.

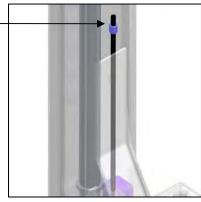
Pass the cable until it reaches the top opening. Tighten a ½"-13UNC nut to the center of the stud, and then **firmly tighten** a second nut up against it using two wrenches.

5.5.4 Pull the cable back down on to the carriage bottom plate.

5.5.5 At the bottom of the column, remove the hitch pin, pulley pin and pulley from the base plate.



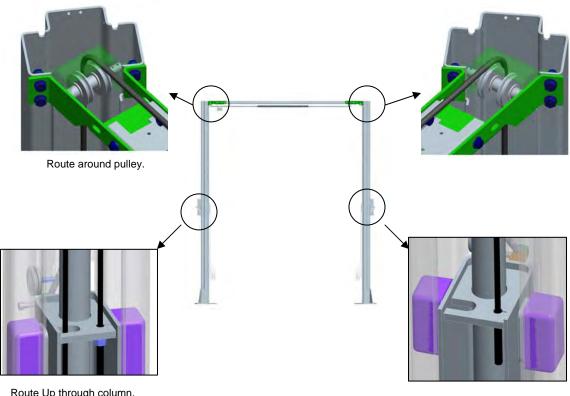




5.5.6 Route equalizing cable around pulley and reassemble the pulley to the base plate. **IMPORTANT – Hitch pin must be installed** securely.



5.5.7 Route Cable as shown.

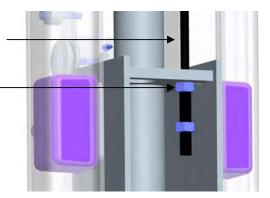


Route Up through column.

Insert stud through top of carriage.

Use a wrench to hold the top of the threaded stud to prevent it from rotating.

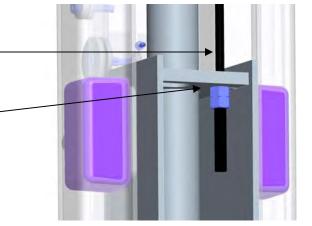
Hand tighten (2) ½"-13 UNC nuts onto the threaded stud enough to remove all visible cable slack



5.5.9

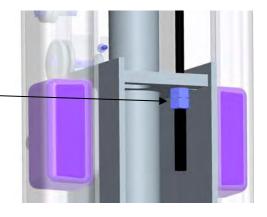
Hold the top of the threaded stud using wrench.

Tighten the first nut approximately 1 $\frac{1}{2}$ " to tension cable.



5.5.10

Tighten the second nut firmly against the first one.



5.5.11 Repeat steps for other cable.

5.5.8

5.6 ARM INSTALLATION

- 5.6.1 Remove the Arm Pins from all four Arms.
- 5.6.2 Install the four arms on the carriages by inserting the arm pins.
- 5.6.3 Install Arm Restraint Gear.

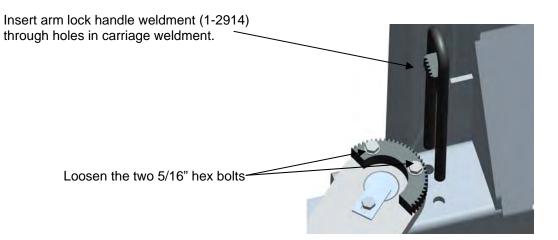
* Note: Arm may not be as shown.

5/16"-18UNC x 1 ¼" LG. hex head bolt (6-2059) 5/16" Flat Washers (6-0295) Arm Restraint Gear (1-2618) Front

Orientation of Gears.

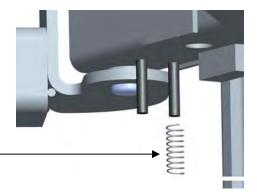
5.7 ARM RESTRAINT INSTALLATION

5.7.1



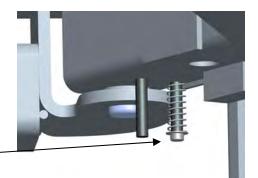
Adjust arm restraint gear so that lock engages smoothly through entire range of arm motion. **Tighten both 5/16 hex bolts.**

- 5.7.3 Repeat above steps for all arms.
- 5.7.5 Slide arm lock spring over outboard leg of arm lock handle (leg which is nearest tower).



Arm Lock Spring (1-2942) -

5.7.6 Hammer a spring retainer cap to the end of the arm lock leg.

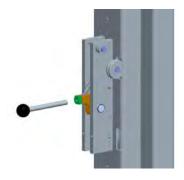


Spring Retainer Cap (6-3086)

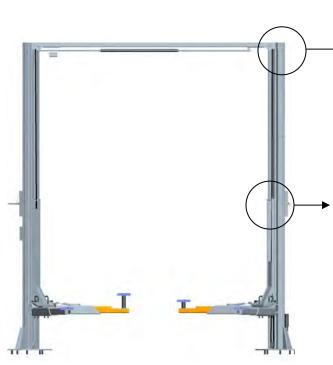
5.8 SAFETY RELEASE CABLE ROUTING AND ADJUSTMENT

The mechanical safety automatically engages. To release the mechanical safety, you must first raise the lift approximately 2", then pull the safety release lever down. This disengages the power side safety dog and activates the safety cable to release the slave side safety dog.

5.8.1 Install the safety release handle (1-1113) onto the power side safety dog.



5.8.2





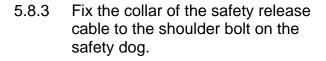
Start routing here on slave side.



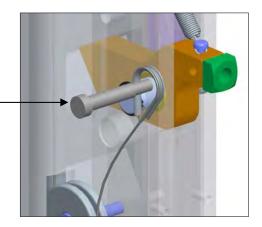
Pull cable out through the opening in tower and route under large pulley.

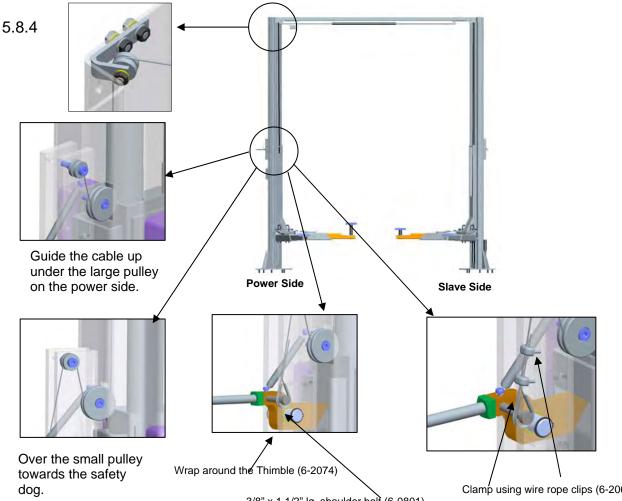
Power Side

Slave Side



NOTE: Make sure shoulder bolt, 3/8" dia. x 1 ½" lg. (6-0801), is lock tight to safety dog.





3/8" x 1 1/2" lg. shoulder bolt (6-0801)

Clamp using wire rope clips (6-2060)

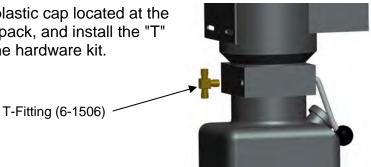
Do not tighten fully at this stage.

5.8.5 Adjust the cable length so that both safety dogs travel from full engagement position to full release position when the safety release handle is pulled.

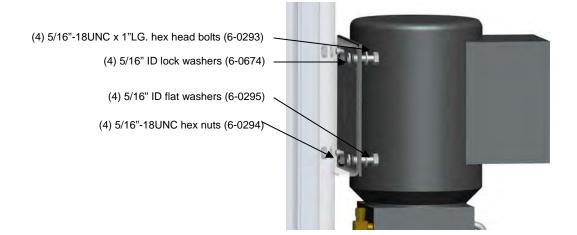
Tighten both wire rope clips firmly when adjustment is completed.

5.9 POWER PACK INSTALLATION

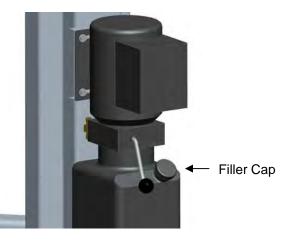
5.9.1 Remove the **red** plastic cap located at the rear of the power pack, and install the "T" fitting located in the hardware kit.



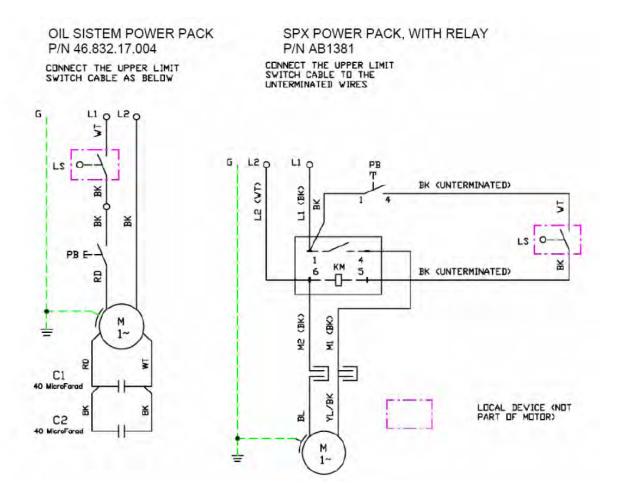
5.9.2 Bolt power pack to the mounting bracket on the power side tower using hardware from the kit. Do not tighten.



5.9.3 Remove the filler cap from the powerpack and fill the reservoir with approximately 4.5 Gal. (18L) of ISO32 hydraulic oil (10 wt. hydraulic oil).



5.9.4 A certified electrician must connect the 230Volt/1Ph power to the motor.

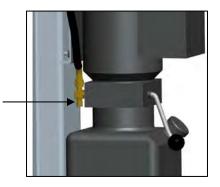


Electrical Diagram

5.10 HYDRAULIC SYSTEM INSTALLATION

5.10.1 Connect long hose to the top port on "T" fitting.

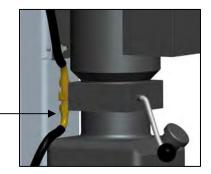
45° End of Long Hose (2-1486)



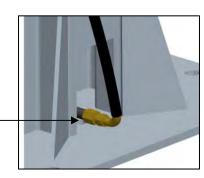
5.10.2 Connect short hose to the other end of the "T" fitting.

45° End of Short Hose (2-1230) -

90° End of Hose-



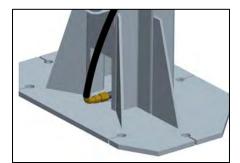
5.10.3 Remove the plastic cap from the bottom of the power side cylinder and connect the short hose to the cylinder.



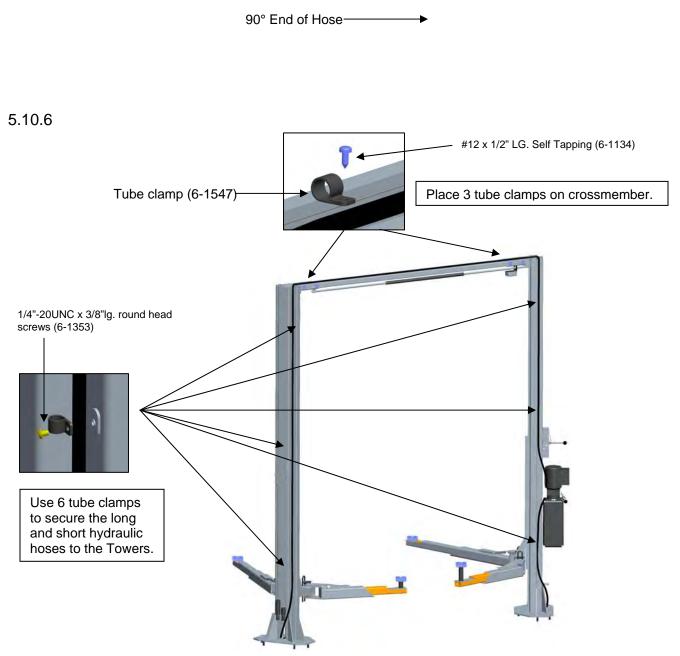
5.10.4

Loop the hydraulic hose up the power side tower, across the overhead and down the slave side tower.



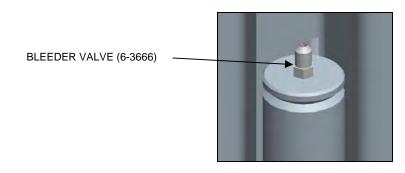


5.10.5 Remove the plastic cap from the bottom of the slave side cylinder and connect the long hose to the cylinder.

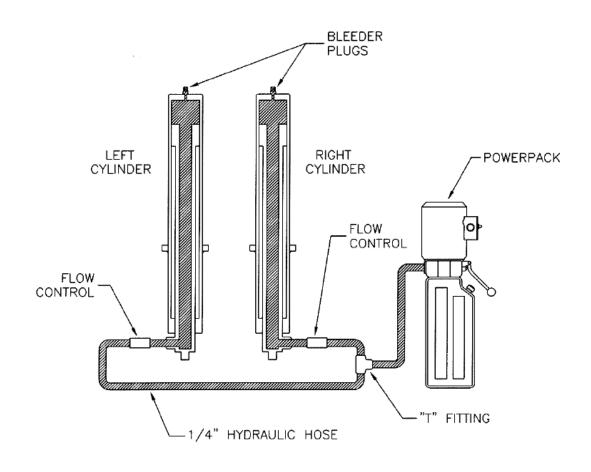


5.11 HYDRAULIC SYSTEM BLEEDING

5.11.1 Crack the bleeder valve located at the top of both cylinders (approx. ¼ turn)



- 5.11.2 Power up 2"-3". You should hear air escaping around the bleeder valve. Repeat 3 – 4 times or until only oil is coming out of the bleeder valve.
- 5.11.3 Tighten the bleed screw and lower the lift.



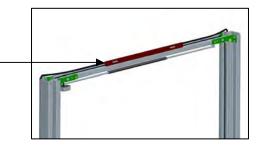
5.12 TOWER POSITIONING AND ANCHORING

WARNING! Failure to follow these instructions may cause an unsafe operating condition.

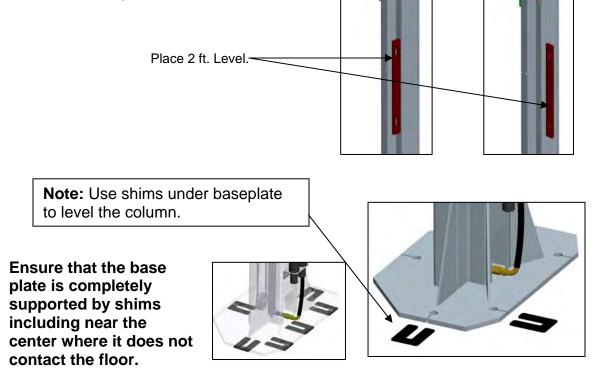
WARNING! Before proceeding with installation, review Section 4: Installation & Tools.

5.12.1 Determine which column is higher using a 4ft level.

Place 4 ft. Level.-

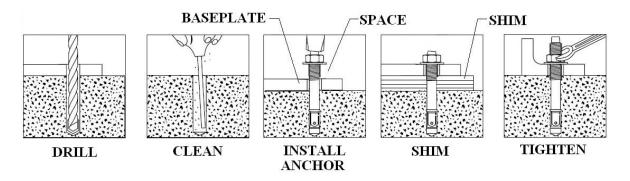


5.12.2 Check if high column is level in the vertical position.

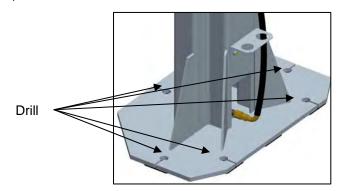


5.12.3 Refer to Bay Layout to ensure that the column is still in the proper position.

5.12.4 Prior to installing anchors, assemble the nut and washer onto anchors. A minimum of six threads must be visible below the surface of the nut. Refer to the figure below while reading through the following instructions.



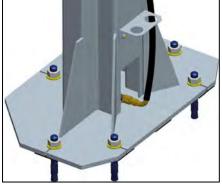
5.12.5 Using a 3/4" concrete drill bit and rotary hammer drill, drill ³/₄" holes for the anchor bolts on the high side column. Drill through the concrete floor. (In case longer anchors are required, supplied anchors can be hammered through concrete).

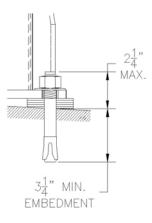


5.12.6 Clean out the drilling dust from the holes and hammer in the anchor bolts until they make contact with the baseplate. **Hand tighten all anchor bolts.**

Check that the column is level front to rear and side to side. Adjust shims as required.

5.12.7 **Torque all anchor bolts to 150 ft-lbs.** (203 Nm), continually checking that the column is level as you proceed.





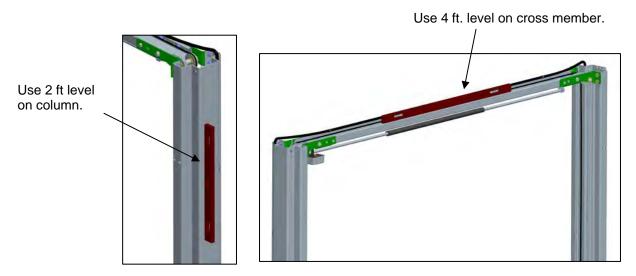
NOTE:

The $3/4" \times 5 \frac{1}{2}"$ lg. Wedge anchor bolts supplied must have a minimum embedment of $3\frac{1}{4}"$ into concrete floor.

If anchor bolts do not tighten to 150 ft-lbs. OR project more than 2 ¼" above the concrete surface due to floor slope, the concrete should be replaced by an appropriate concrete pad. (Consult Product Manufacturer / Supplier for further details).

5.13 POSITION AND ANCHORING OF REMAINING TOWER

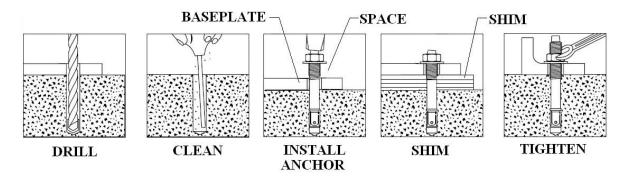
5.13.1 Level the low side column by shim underneath the baseplate.



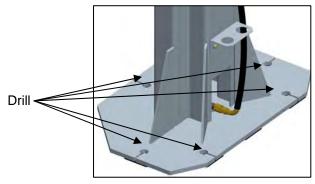
Ensure that the baseplate is completely supported by shims where it does not contact the floor.

WARNING! Do not use more than ½" (13mm) of shims. Anchor bolts supplied allow for a maximum of ½" (13mm) of shim. If more than ½" (13mm) of shims are required, DO NOT proceed with installation and contact Product Manufacturer / Supplier for further details.

- 5.13.2 Refer to Bay Layout above to ensure that the column is still in the proper position.
- 5.13.3 Prior to installing anchors, assemble the nut and washer onto anchors. A minimum of six threads must be visible below the surface of the nut. Refer to the figure below while reading through the following instructions.



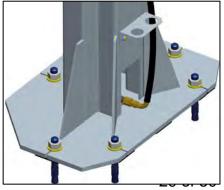
5.13.4 Using a 3/4" concrete drill bit and rotary hammer drill, drill ¾" holes for the anchor bolts on the high side column. Drill through the concrete floor. (In case longer anchors are required, supplied anchors can be hammered through concrete).

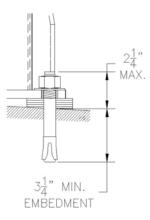


5.13.5 Clean out the drilling dust from the holes and hammer in the anchor bolts until they make contact with baseplate. **Hand tighten all anchor bolts.**

Check that the column is level front to rear and side to side. Adjust shims as required.

5.13.6 **Torque all anchor bolts to 150 ft-lbs.** (203 Nm), continually checking that the column is level as you proceed.



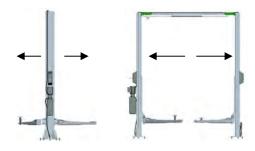


NOTE:

The $3/4" \times 5 \frac{1}{2}"$ lg. Wedge anchor bolts supplied must have a minimum embedment of $3\frac{1}{4}"$ into concrete floor.

If anchor bolts do not tighten to 150 ft-lbs. OR project more than 1 ¾" above the concrete surface, the concrete MUST be replaced by an appropriate concrete pad. (Consult Product Manufacturer / Supplier for further details).

5.13.7 Verify that the entire lift is level both horizontally and vertically to ensure optimum lifting performance. NOTE: Perform a monthly inspection and torque all anchor bolts to 150 ft-lbs. (203 Nm).



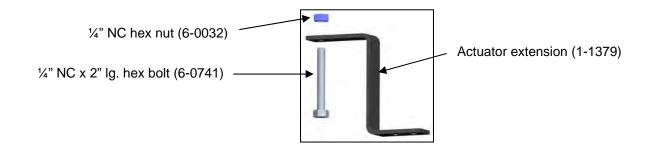
5.14 SAFETY SHUT-OFF BAR ADJUSTMENT

5.14.1 When the lift is fully installed, leveled and operational, extend the carriages to their full upper limit.

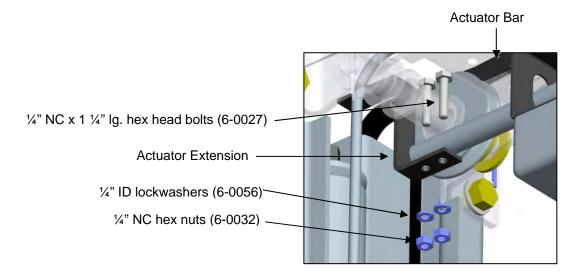




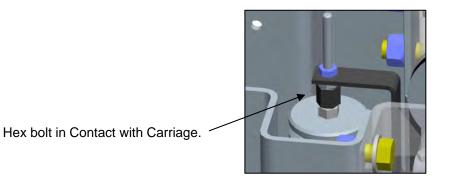
5.14.3 Attach a ¼ bolt and nut to actuator extension.



5.14.4 Bolt the Actuator Extension onto the open end of actuator bar.



5.14.5 Adjust the $\frac{1}{4}$ " NC x 2" lg. hex bolt so that the end of the bolt is in contact with the carriage. Tighten the $\frac{1}{4}$ " NC hex nut on the bolt.



5.15 FINAL CHECK OF ASSEMBLED LIFT

1. Final dimension check after anchoring.			
2. Check for hydraulic leaks.			
3. Ensure cables are properly routed and free from obstructions.			
4. Check jam nuts on cables are tightened.			
 Check that LOCTITE has been applied to all hardware where required. 			
 Check adjustment of safety release cable to ensure both sides working properly. 			
7. Re-check level of towers.			
8. Check torque of anchor bolts.			
9. Check all fasteners, tighten if necessary.			
10. Check shut off at top of stroke to ensure lift shuts off.			
11. Check proper operation of arm restraints.			
12. Operate lift to full stroke then lower to ground while checking for proper functionality.			
13. Ensure Customer Care Kit is complete and given to operator.			
a. Operation Manual			
b. ANSI / ALI Lift It Right Manual			
c. ANSI / ALI Safety Tip Card			
 ANSI / ALI ALIS Safety Requirements for Installation and Service of Automotive Lifts 			
e. ANSI / ALI Quick Reference Guide			
14. Train end user on operation of lift.			

5.16 OPERATION TEST WITH VEHICLE

- 1. Lower lift to ground.
- 2. Drive vehicle on to lift and locate the arms as per the "Lift it Right" manual.
- 3. Raise lift to and lower onto 3-4 lock positions during full rise to ensure all locks are working correctly.
- 4. Re-adjust cables if necessary while vehicle is on.
- 5. Check lowering speed and smooth decent rate.
- 6. Lower lift to ground and drive vehicle off lift.

If any problems occur during the final checkout or operation of the lift please contact customer service at 1-800-268-7959

6.0 LIFT MAINTENANCE GUIDELINES

6.1 SAFETY INSTRUCTIONS

Read operating and safety manuals before using any lift. Do not operate a lift that has been damaged or is in disrepair. Proper inspection and maintenance is necessary for safe operation.

6.2 PERIODIC MAINTENANCE

DAILY:

- 1. Check all hydraulic lines and fittings for pinch points , damage , cracks or leaks
- 2. Check all electrical wiring for pinch points , cracks or damage
- 3. Check all moving parts for uneven or excessive wear
- 4. Repair or replace all damaged, defective, worn or broken components immediately.
- 5. Check the telescopic arms for movement. Clean any grease or oil from the lifting adapters.
- 6. Raise and lower the lift at the beginning of each shift, without a vehicle on, to verify the lift is leveled and operating properly.

EVERY TWO MONTHS:

- 1. Clean and re-grease slide block channels inside of both columns
- 2. Grease arm pins
- 3. Lubricate safety dogs and check safety release cable adjustment
- 4. Check arm restraints and lubricate
- 5. Check anchor bolts and re-torque if required

EVERY FOUR MONTHS:

- 1. Dismantle and clean inner arms
- 2. Lubricate cable pulleys
- 3. Check equalizing cable adjustment

EVERY YEAR:

1. Inspect lift as per Automotive Lift Operation, Inspection and Maintenance (ALOIM)

EVERY TWO YEARS:

1. Change hydraulic fluid

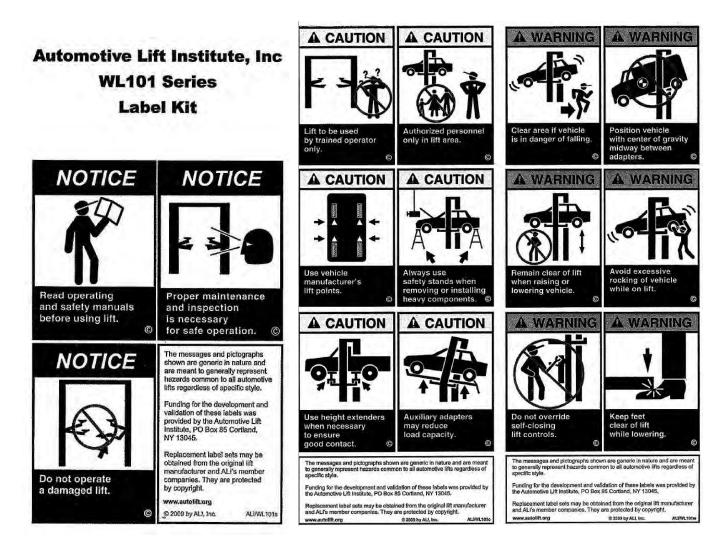
LUBRICATION:

Where grease is required > multi-purpose lithium grease Where lubricating oil is required > multi-purpose SAE 30 lubricating oil Where hydraulic oil is required > ISO 32 10W - non detergent hydraulic oil

NOTE: If the lift locks, while in the fully raised position this will indicate that the hydraulic system has not been inspected or maintained as recommended. This is a safety back-up system. If you are unclear call your local representative immediately.

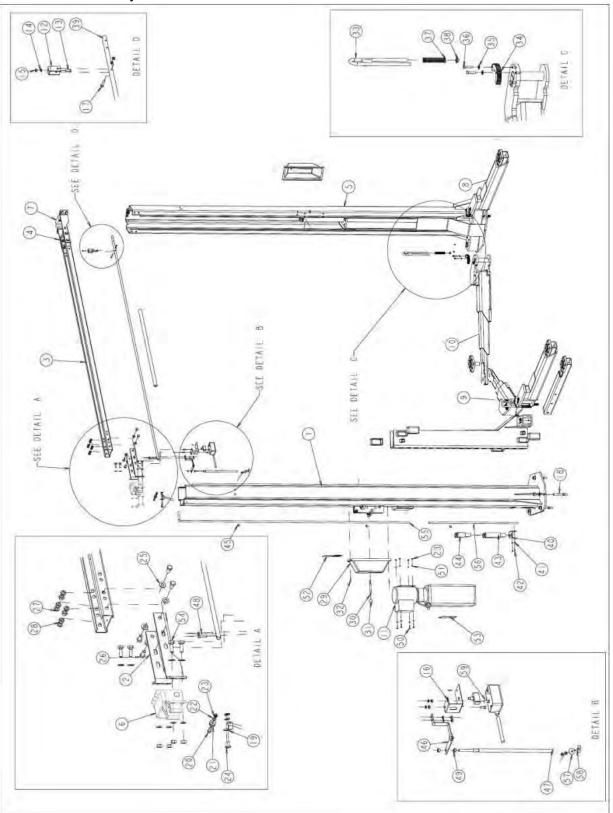
7.0 SAFETY AWARENESS

AUTOMOTIVE LIFT INSTITUTE (ALI)



8.0 PARTS LIST

Parts List Assembly



Parts List

Item #	Part #	Description	Qty.	
1	4-1018	TOWER ASSEMBLY POWER SIDE 12FT		1
	4-1020	TOWER ASSEMBLY POWER SIDE 14FT		
2	3-0995	L.S. CROSSMEMBER CHANNEL BRACKET		1
3	2-2323	CROSSMEMBER CHANNEL		1
4	3-0996	R.S. CROSSMEMBER CHANNEL BRACKET		1
5	4-1019	TOWER ASSEMBLT SLAVE SIDE 10K 12FT		1
	4-1021	TOWER ASSEMBLT SLAVE SIDE 10K 14FT		
6	2-2321	LS PULLEY ASSEMBLY		1
7	2-2322	RS PULLEY ASSEMBLY		1
8	4-1183-6	LONG ARM ASSEMBLY - STACK PAD		2
9	4-1263	ASYMMETRIC 3-STAGE ARM ASSEMBLY LH – STACK PAD		1
10	4-1262	ASYMMETRIC 3-STAGE ARM ASSEMBLY RH – STACK PAD		1
11	6-2055	Power Pack, 208-230 V, 1 PH		1
12	1-1378	ACTUATOR MOUNTING BRACKET		1
13	6-0178	Hex Bolt, ¼" x ¾" LG.		1
14	6-0056	Lock Washer, ¼" I.D.		7
15	6-0032	Hex Nut, 1/4"-20UNC		7
16	2-2024	Microswitch Assembly		1
17	6-0205	Hex HD. Bolt ¼" NC x 1 ½" LG.		1
18	6-1379	Wedge Anchor 3/4" x 5 1/2" LG. (c/w Washer & Nut)		10
19	2-1477	PULLEY BRACKET		2
20	6-0069	Shoulder Bolt, 3/8" DIA. X 5/8" LG.		2
21	1-1116	SAFETY CABLE PULLEY		2
22	6-0296	5/16" Lock Washer		6
23	6-0294	HEX NUT, 5/16-18 UNC		10
24	6-0423	Hex Bolt, 5/16" # 18UNC x ¾" LG.		4
25	6-0248	Flat Washer, ½" ID SAE		16
26	6-0045	Hex HD Bolt, 1/2"-13UNC x 1" LG		8
27	6-0059	Lock Washer, 1/2"		16
28	6-0035	NUT, 1/2-13 UNC, HEX		16
29	3-0439	SAFETY COVER		2
30	1-1113	SAFETY RELEASE HANDLE		1
31	6-1135	Plastic Knob		1
32	6-1134	SELF TAPPING SCREW, #12 X 1/2" LG		4
33	1-2914	ARM LOCK HANDLE WELDMENT		4
34	1-2618	ARM RESTRAINT GEAR		4
35	6-0295	FLAT WASHER, 5/16" I.D.		12
36	6-2059	HEX HD. BOLT 5/16-18 UNC x 1 1/4.		8
37	1-2942	HANDLE SPRING		4
38	6-3086	Spring Retainer Cap		4
39	2-1240	Actuator Bar with Foam		1
40	1-2012	ADAPTER HOLDER		2
41	6-0060	Flat Washer, ¼" I.D.		4

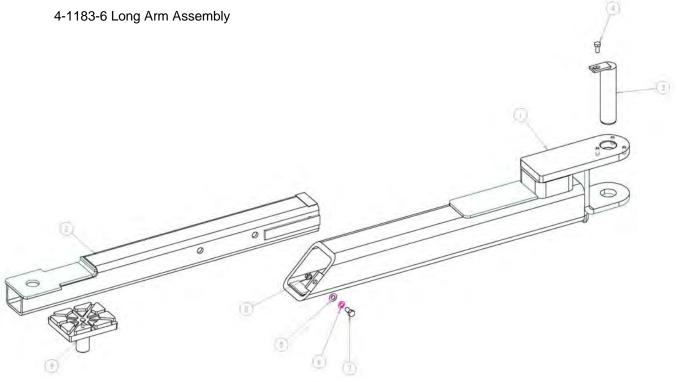
42	6-1353	Round HD. MACH. Screw 1/4"-20 x 3/8" LG.	4
43	2-1580	6" HEIGHT ADAPTER	4
44	1-3280	3" HEIGHT ADAPTER	4
45	6-0536	TUBE CLAMP, 1/2"	6
46	2-1904	10K ASY. 2-POST	1
47	2-1907	ACTUATOR EXTENSION WELDMENT	1
48	6-0027	Hex HD. Bolt ¼" NC x 1 ¼" LG.	2
49	6-0034	HEX NUT, 3/8" NC	2
50	6-0293	Hex Bolt, 5/16"-18UNC x 1" LG.	4
51	6-0674	LOCK WASHER, 5/16 I.D.	4
52	6-1111	Serial Number Plate	1
53	6-3039	Lift Operations Decal	1
54	6-0291	Hex Bolt,1/2"-13UNC X 1 1/2 LG.	8
55	1-2040	HYDRAULIC HOSE (12FT)	1
56	2-1230	SHORT HYD. HOSE ASS'Y	1
57	6-0626	1/4" WASHER FENDER	1
58	6-0904	9/16 ID EYE BOLT	1
59	6-0008	Hex Bolt, ¼" x 1" LG.	2

* Not Shown

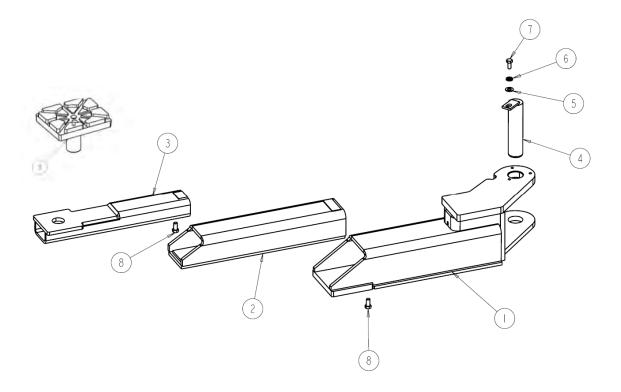
1-3781	EQUALIZATION CABLE (12 FT)	2
1-3475	EQUALIZATION CABLE (14 FT)	2

Arm Assemblies

4-1183-6 Long Arm Assembly

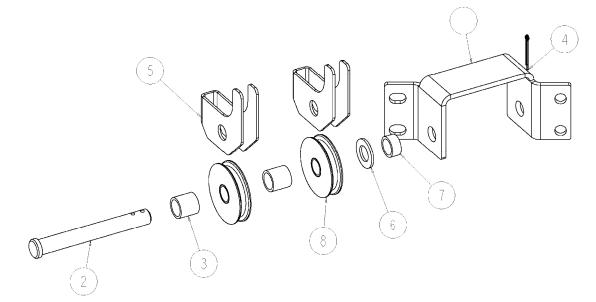


ltem#	Part#	Description	Qty.
1	3-0979	Outer Arm Weldment	1
2	3-0980	Inner Arm Weldment	1
3	2-1594	Arm Pin	1
4	6-0423	Hex Bolt 5/16"-18 UNC x 3/4" Lg.	1
5	6-0062	Flat Washer 3/8" ID SAE	1
6	6-0058	Lockwasher 3/8"	1
7	6-0030	Hex Bolt 3/8" UNC x 3/4" Lg.	1
8	6-3369	Nylon Jam Nut 3/8"	1
9	1-3278	Stack Pad Assy	1
*	3-0872	Moulded Rubber Pad (Stack Pad)	



ltem#	Part#	Description	Qty.
1	2-2685	Outer Arm Weldment, L.H.	1
2	2-2679	Intermediate Arm Weldment	1
3	2-2682	Inner Arm Weldment	1
4	2-1594	Arm Pin	1
5	6-0062	Flat Washer 3/8"	1
6	6-0058	Lockwasher 3/8"	1
7 8 9	6-0423 6-0030 1-3278	Hex Bolt 5/16"-18 UNC x 3/4" Lg. Hex Bolt 3/8"-16 UNC x 3/4" Lg. Stack Pad Assembly	1 2 1
*	3-0872	Moulded Rubber Pad (Stack Pad)	
** 4-'	1262 Arm A:	ssembly RH (Not Shown)	
	2-2674	Outer Arm Weldment, RH	1

Crossmember Pulley Assembly



2-2321 Crossmember Pulley Assembly, LH

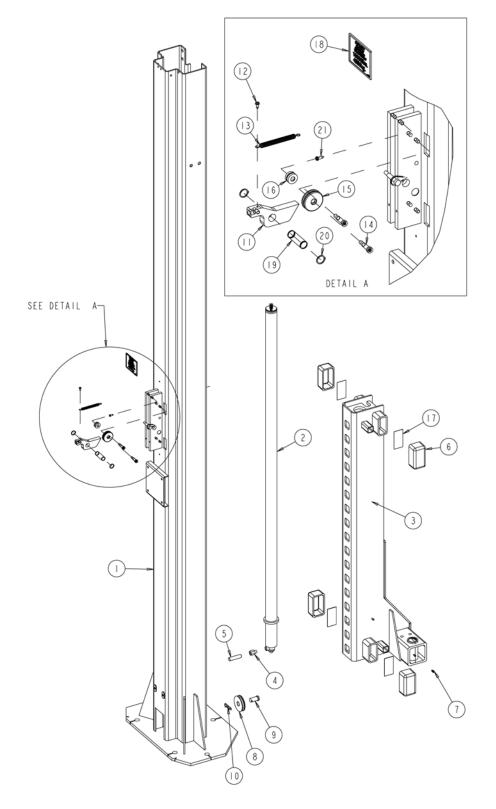
Part#	Description	Qty.
2-2315	Crossmember Pulley Bracket LH	1
1-3178	Common Pulley Pin	1
1-3172	Crossmember Pulley Pipe 1-1/16" Lg.	2
6-0978	Cotter Pin 1/8" Dia. X 1-1/2" Lg.	1
1-3494	Cable Retainer	2
6-0738	Flat Washer 3/4" SAE	1
1-1623	Crossmember Pulley Pipe 1/2" Lg.	1
1-1898	Pulley Assembly	2
	2-2315 1-3178 1-3172 6-0978 1-3494 6-0738 1-1623	 2-2315 Crossmember Pulley Bracket LH 1-3178 Common Pulley Pin 1-3172 Crossmember Pulley Pipe 1-1/16" Lg. 6-0978 Cotter Pin 1/8" Dia. X 1-1/2" Lg. 1-3494 Cable Retainer 6-0738 Flat Washer 3/4" SAE 1-1623 Crossmember Pulley Pipe 1/2" Lg.

2-2322 Crossmember Pulley Assembly RH (Not Shown)			
2-2316	Crossmember Pulley Bracket RH	1	

Tower Assembly

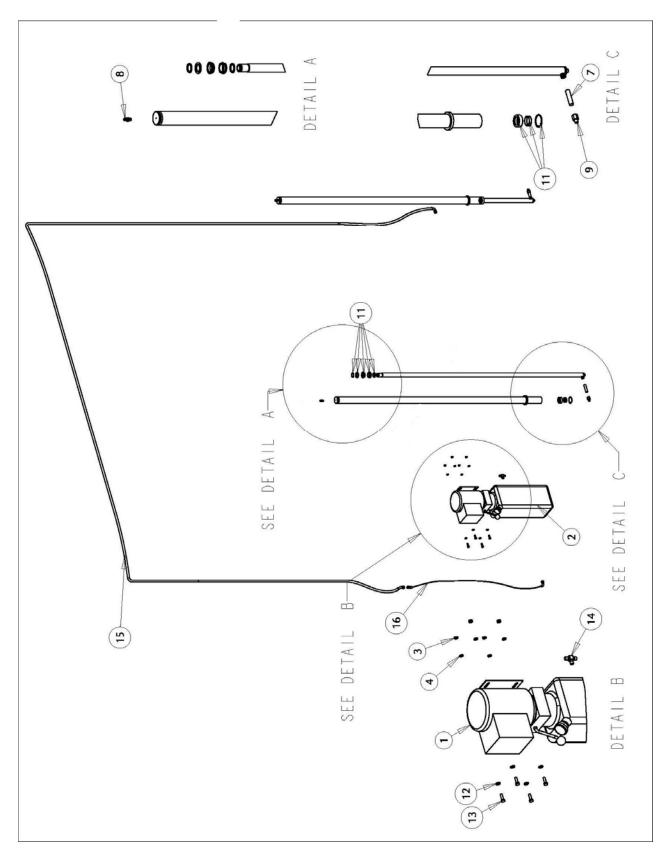
4-1018-4 Tower Assembly, LH

(not shown; 4-1019-4 Tower Assembly, RH)



ltem#	Part #	Description	Qty.
1	4-1012	Tower Weldment (Power)	1
2	3-0621	Hydraulic Cylinder Assembly (Patriot)	1
3	4-1162	Formed Carriage Weldment	1
4	6-1510	Flow Control	1
5	6-2095	Male Nipple, ¼" NPT	1
6	2-0772	Slider Block	4
7	6-0000	Grease Nipple	2
8	1-1898	Pulley Assembly	1
9	1-1887	Headed Pin	1
10	6-1841	Hitch Pin, 1/8" DIA.	1
11	2-1901	Safety Dog	1
12	6-0169	Self-Tapping Screw, #10 x 3/8" Lg	1
13	1-1115	Safety Spring	1
14	6-0206	Shoulder Bolt, 3/8" DIA. x 1" LG.	2
15	1-0415	Safety Cable Pulley	1
16	1-1116	Safety Cable Pulley	1
17	1-2657	Shim, Slider Block	6
18	6-1766	Capacity Decal	1
19	1-2337	Safety Lock Pin	1
20	6-2445	Snap Ring ¾" EXT	2
21	6-1134	Self-Tapping Screw, #12 x 1/2" Lg	1

8.1 HYDRAULIC SYSTEM

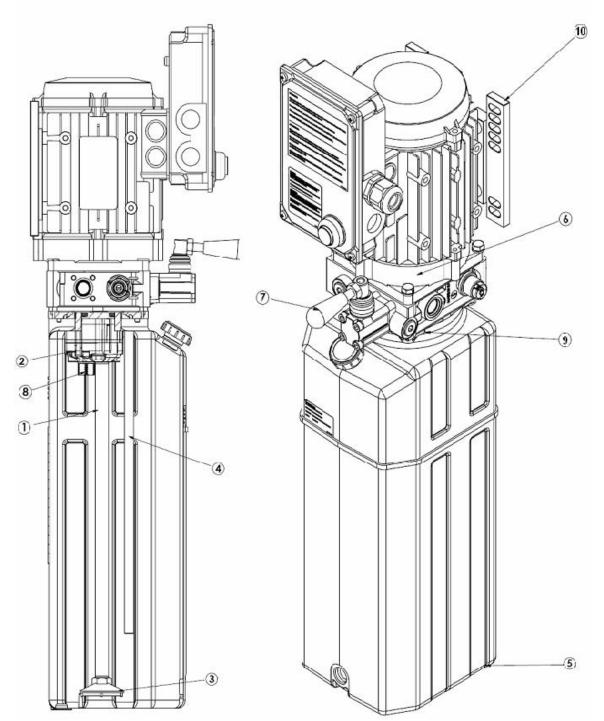


ltem	Part #	Description	Qty
1	6-2055	Power Pack, 208-230V, 1 PH	1
	6-2665	Power Pack, 208-230V, 3 PH	
2	6-3039	"Lift Operation" Decal	1
3	6-0294	Hex Nut, 5/16"-18 UNC	4
4	6-0674	Lock Washer, 5/16" I.D.	4
7	6-2095	Male Nipple, ¼" NPT	2
8	6-3666	Bleeder Valve (Holmac)	2
	6-4083	Bleeder Valve (HWF Eagle)	2
9	6-1510	Flow Control	2
11	6-3162	Gland & Piston Seal Kit (Holmac Cylinder)	2
	6-3914	Gland & Piston Seal Kit (HWF Eagle Cylinder)	2
12	6-0295	Flat Washer, 5/16" I.D.	4
13	6-0293	Hex Bolt, 5/16"-18 UNC x 1" LG.	4
14	6-1506	Branch Tee	1
15	1-2040	Hydraulic Hose (Long)	1
16	2-1230	Hydraulic Hose (Short)	1
	3-062101	Cylinder Assembly (Not INCL. Flow Control)	*
		3PH Power Pack Includes the Following (Not Shown)	
*	6-1575	Contactor Box	1
*	2-1130	Contactor Bracket	1
*	1-1369	Cover Plate	1
*	6-0008	Hex Bolt, ¼" –NC x 1" LG	2
*	6-0056	Lock Washer, ¼"	4
*	6-0032	Hex Nut, ¼" – NC	2
*	6-0094	Strain Relief	2
*	8-0287	Cable, 14/4	2 ft.

8.2 POWER PACK PARTS LIST:

NOTE: THERE ARE 2 TYPES OF POWER PACKS USED WITH THIS LIFT.

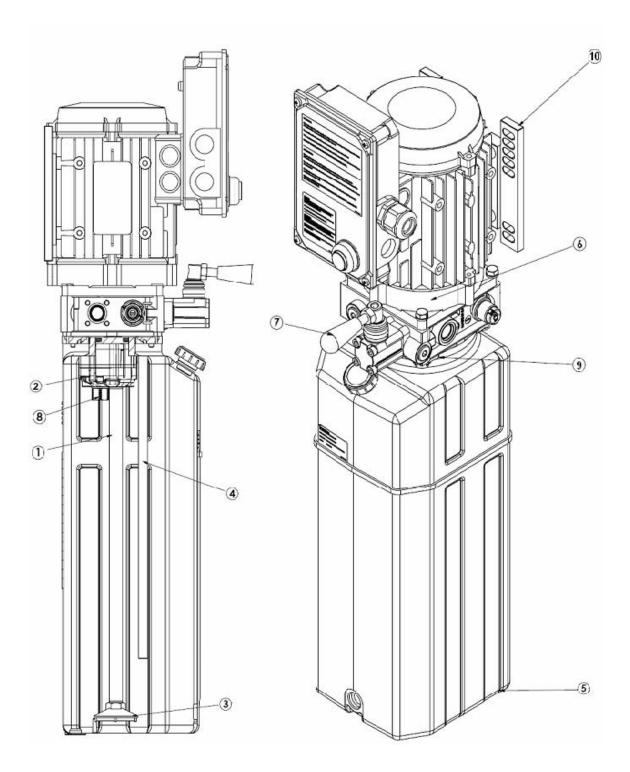
TYPE 1:



ltem	Part #	Description	Qty
1	6-3442	PUMP 6.7G, 17 GEAR	1
2	6-3443	SUCTION PIPE 3/8"	1
3	6-3444	SUCTION FILTER 3/8" FEMALE 15 L/MIN	1
4	6-3445	RETURN PIPE	1
5	6-3446	PLASTIC TANK 12L	1
6	6-3447	MOTOR SHAFT COUPLING PUMP	1
7	6-3448	MANUAL VALVE	1
8	6-3452	START UP VALVE	1
9	6-3449	TANK BRACKET WITH SCREWS	1
10	6-3450	MOTOR BRACKETS	1
11*	6-3451	PUSH BUTTON WITH MICROSWITCH	

***NOT SHOWN IN DIAGRAM**

TYPE 2:



#6-2055 (AB-1381) 208-230V/1PH/60Hz #6-2665 (AD-1044) 208-230V/3PH/60Hz

Description Qty Item Part # PUMP 6.7G, 17 GEAR 6-3442 1 6-3443 SUCTION PIPE 3/8" 2 3 6-3444 SUCTION FILTER 3/8" FEMALE 15 L/MIN 4 6-3445 **RETURN PIPE** 5 6-3446 PLASTIC TANK 12L 6 6-3447 MOTOR SHAFT COUPLING PUMP 7 6-3448 MANUAL VALVE 8 6-3452 START UP VALVE 9 6-3449 TANK BRACKET WITH SCREWS 10 6-3450 MOTOR BRACKETS PUSH BUTTON WITH MICROSWITCH 11* 6-3451

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9.0 AVAILABLE ACCESSORIES **Flip Pad Accessories** Poly Pad High Lift Truck Adapter Extension Mid-Rise / 2-Post (set of 4) (set of 2) 3000 lb max capacity each 2500 lb max capacity each **Stack Pad Accessories** Stack Pad Stack Pad Ass'y w/ 3" &6" Adapter w/ Checker Plate Adapters Тор (set of 1) (set of 4) 3000 lb max capacity each 3000 lb max capacity each 1 ¹/₂" Stack Pad 4 ½" Stack Adapter Kit Assembly Kit 3000 lb max capacity each 3000 lb max capacity each **Common Accessories** Tool Tray Kit for Secondary Adapter Pad Kit 2-Post (Used On Outer Arms) 3000 lb max capacity each 24" Tower Air / Electric Foam Door Protector Kit Service Extension Station for 2-Post & 4-Post (90-110 psi 110 Volts Required)

Accessories may not be available for all models. Contact supplier for availability and part numbers.

Max capacity is for 12,000 Lb Lifts. Do not exceed rated capacity of lift.