

herkulesTM

L1200

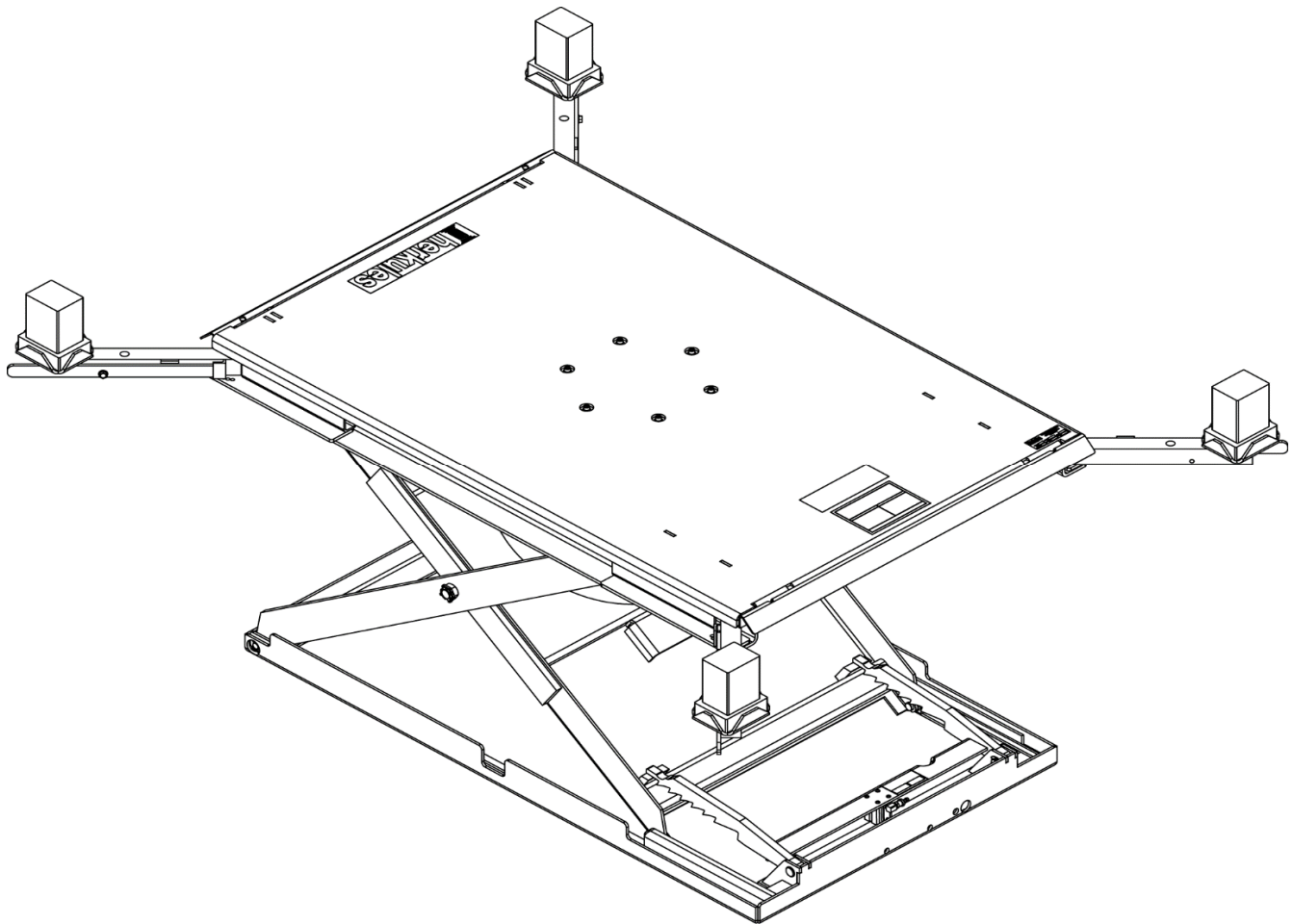
Part# 1002866-06
1/20/2017

OWNERS MANUAL



INSTRUCTIONS

This manual contains important information concerning the installation and operation of the automobile lift listed above. Read manual thoroughly and keep for future reference.



1002866 (L1200) - 06.xlsx

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Patents USA 7070167 4793369, 4960142, 5174317, 5193561, 5485860 Canada 1299468 & Patents Pending
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Made in the USA

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Warning Symbol



This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions.

Caution Symbol



This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the instructions.

Serial Number _____

Model Number _____

Purchase Date _____

Distributor _____



This product has patent protection under one or more of the following patent numbers:

7070167, 5485860, 5193561, 5174317
4960142, 4793369, 1299468
and Patents Pending

website: www.herkules.us

1002742

Limited Liability Warranty

The limited liability warranty applies to the pneumatic chambers of our Herkules lifts and to the initial user against defective materials for a period of five years from the proof of purchase date. The limited liability warranty applies to other components of our Herkules lifts to the initial user against defective materials for a period of one year from the proof of purchase date.

This warranty does not apply to equipment damaged from accident, abuse, overload, misuse, negligence, improper installation, abrasive or corrosive materials, or shipping damage.

In the event of failure, the defective item must be returned, freight prepaid, to the Herkules manufacturing plant for repair or replacement. If repairs are required Herkules will not be liable for these repairs to take place in the field regardless of the application. Proof of purchase and date of purchase must be confirmed. An RGA number (Return Goods Authorization) and written approval from Herkules must be obtained before any goods can be shipped to Herkules. Herkules reserves the right to determine whether the cause of failure is due to defective material, normal wear, and/or other causes.

There are no warranties which extend beyond the description on the face hereof. Herkules disclaims any warranty of merchantability or fitness for a particular purpose in connection with the Buyer's purchase of any Product under this agreement. Damages are limited to the sales price of the Herkules system

The terms and conditions herein represent the entire agreement between Herkules and the Buyer. Any prior / future representations do not apply.


Warning:

This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions


Caution:

This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the instructions.


I. Tag - Operating Instructions (P/N 1006355) Front

	www.enkon.pro	www.herkules.us	1-800-444-4351
GENERAL OPERATING INSTRUCTIONS			
<ol style="list-style-type: none">1 The equipment is designed solely in accordance with buyer's specifications and technical operating parameters. By using the equipment, buyer acknowledges and agrees that it has inspected the equipment; is satisfied that the equipment is of the size, design, capacity, description and manufacture selected by buyer; compliant with buyer's specifications and technical operating parameters; and solely fit for its intended purposes. Buyer acknowledges and agrees that the manufacturer shall not be liable to buyer, or any operator, for any injury, loss, damage, or expense of any kind or nature caused, directly or indirectly, by the use, operation, or maintenance of the equipment which has been modified or is otherwise not in compliance with the equipment specifications and technical operating parameters, and buyer agrees to indemnify and hold the manufacturer harmless from any such claims.2 Read and understand all warnings, cautions, and instructions in the manual and tags before operating equipment.3 Inspect equipment prior to use; repair or replace damaged or broken components. Keep system lubricated for proper function.4 This lift is designed and engineered to be operated at a predetermined amount of duty cycles per day as specified in the manual or the Herkules approval drawing.5 This lift is designed and engineered to be exclusively center loaded unless otherwise specifically specified in the manual or the Herkules approval drawing.6 Secure loads to lift in order to prevent moving or tipping of load.7 Install lift system only on flat, level surfaces as noted in the installation instructions. If improperly installed, lift system is subject to excessive wear, reduced life span, and lift failure.8 Do not operate lift until unit has been correctly installed and adjusted as described in the manual.9 Ensure proper function of safety and maintenance devices regularly.10 See manual for proper use of maintenance stops.11 It is the responsibility of the owner/operator to maintain legibility of all safety and instruction labels.12 Herkules is not responsible for any personal injury or property damage resulting from owner/operator failure to follow instructions, cautions, and warnings.13 See additional operating instructions, cautions, and warnings tags.			
Warnings and Cautions — see other side of tag			1006355

I. Tag - Operating Instructions (P/N 1006355) Back

	www.enkon.pro	www.herkules.us	1-800-444-4351
⚠ CAUTION			
<ol style="list-style-type: none">1 Keep clear of lift while in motion.2 Do not operate lift while person(s) are on lift, unless it is a Herkules-engineered operator lift.3 Use only manufacturer-provided replacement parts.4 Maintenance stops are used for external lubrication maintenance only, lift must be unloaded.5 Do not exceed rated load capacity.6 This lift system was designed for a specified application. Personal injury and/or property damage may result if used outside of the original specification.7 If this lift system is used outside the specification, it may not include all appropriate safety devices for your application. Compliance with all federal, state, OSHA, and local laws or codes are the responsibility of the end user.			
⚠ WARNING			
<ol style="list-style-type: none">1 Lift can fail if damaged, misused, or overloaded. Use only if trained.2 Death or injury can occur from improper use or care.3 Inspect before use and observe rated load to avoid death or personal injury.4 Always keep lift system free of all obstructions and debris.5 Non-portable systems must be anchored to the ground with proper lag bolts; failure to do so could cause system to tip or fall, resulting in serious injury, property damage, or death.6 Never, for any reason, put limbs or other body parts inside the lift unless safety/maintenance stops are properly engaged and overhead rigging is used.7 Do not alter or modify any part of equipment.8 Never use a damaged lift. Immediately remove damaged lifts from service until repairs are made.			
Operating Instructions — see other side of tag			1006355

II. Tag - Operating Instructions - Air (P/N 1006356)

	www.enkon.pro	www.herkules.us	1-800-444-4351
OPERATING INSTRUCTIONS AIR LIFT SYSTEMS			
<ol style="list-style-type: none">1 See general operating instructions, cautions, and warnings tag.			
⚠ CAUTION			
<ol style="list-style-type: none">1 Do not use an air supply with pressure exceeding 120 PSI.2 Do not continue to push control lever after lift is fully raised, even though safety valve will prevent over-inflation of air bag.3 Always use a clean, dry air supply that is properly filtered and regulated.			
⚠ WARNING			
<ol style="list-style-type: none">1 Do not modify the pressure relief valve system.2 Replace the pressure relief valve with a Herkules-supplied valve annually.3 Regularly inspect air bags and valves for damage. Damaged components could cause sudden failure of the lift system. Worn or damaged components should be replaced immediately with manufacturer-provided parts.			
			1006356

Installation

STEP 1

Locate lift on a level surface in a position most convenient for the loading and unloading of vehicles.

STEP 2

Obtain hose clamps

ID	Part #	Description	Qty.
1	1001942	CLAMP HOSE CRIMP TYPE 1" Z	1

STEP 3

Using the 1" hose clamp (1001942), clamp the 5/8" ID air line (1001274) from the lift to 5/8" hose barb (1001393) on the foot control assembly (see fig.1).

STEP 4

Obtain 1/2 NPT connector compatible with the quick disconnect on your shop air line.

NOTE: Connector not supplied with lift.

STEP 5

Install 1/2 NPT connector into open port (Port 1) on the foot control valve (see fig.2).

STEP 6

Connect your shop air line to connector and test for proper operation.

NOTE: Must use clean, dry air only. Herkules recommends using a filter/regulator (see Optional Accessories).

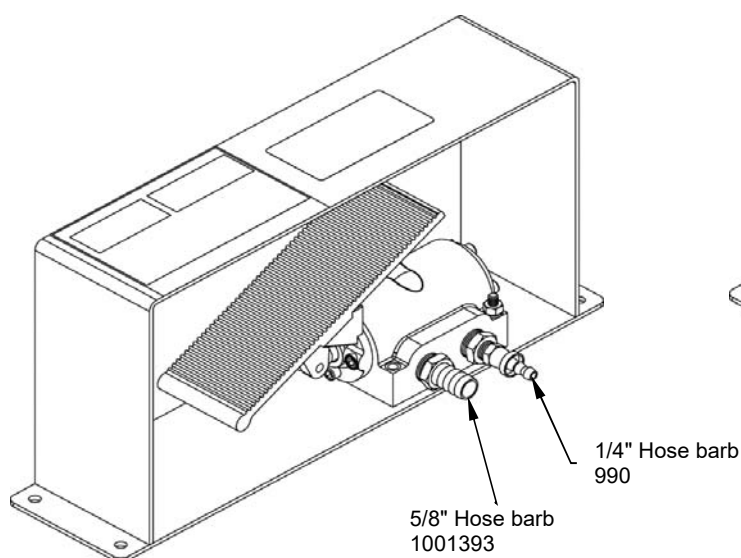


fig.1

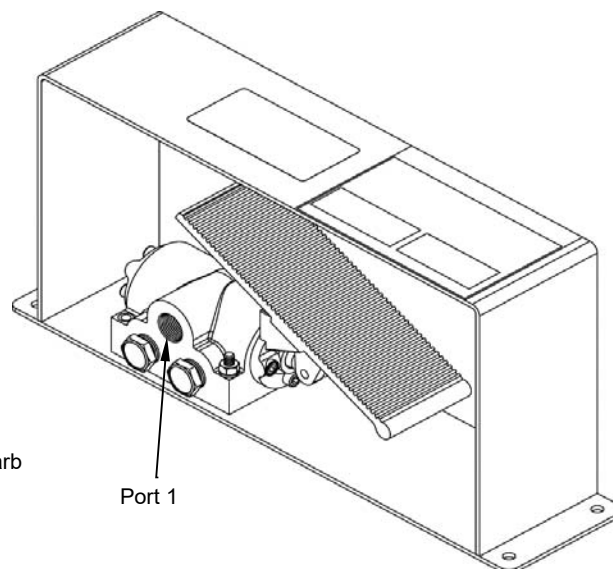


fig.2

STEP 7

After determining the location of the lift, mark the floor where anchor holes are to be drilled (see fig.3).

NOTE: The lift has (4) anchor points (see fig.3).

STEP 8

Move the lift clear of the location and drill the (4) anchor holes with a 7/8" diameter drill to a depth of 2-1/4".

STEP 9

Insert the anchors (008-384) into the drilled holes, making sure that the threaded cone end is inserted first (see fig.4).

NOTE: The anchors (008-384) and bolts (008-385) are sold separately.

STEP 10

Return the lift to the desired position and install (4) 1/2" x 2-1/2" hex bolts (008-385) (see fig.4).

NOTE: Fig.3 shows only lift bottom pan for clarity.

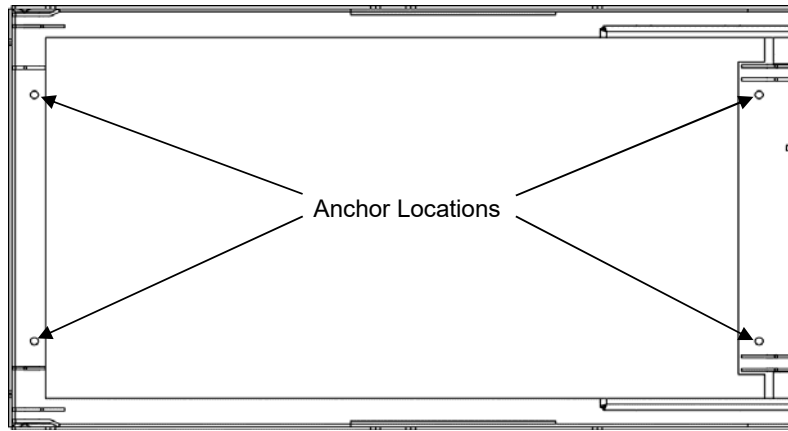


fig.3

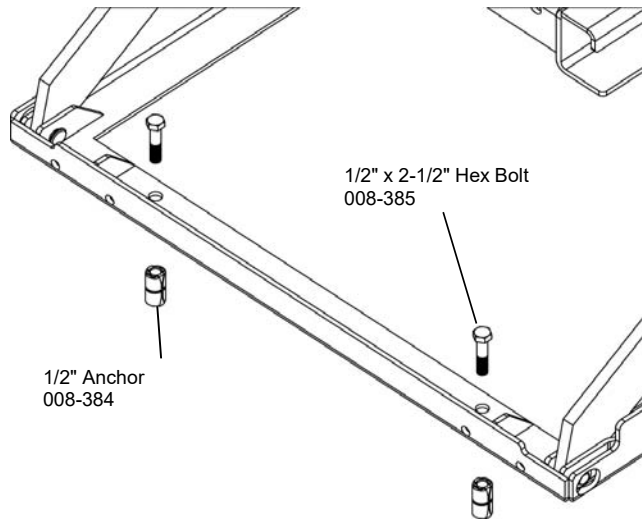


fig.4

Duty Cycle

I. Lift Cycle Rating:

This lift is rated for 5 - 15 cycles per day maximum. For high cycle usage warranty does not apply.

II. Duty Cycle:

This lift is rated for approximately 12,000 - 15,000 cycles between repairs (MTBF). This lift is not rated for high duty cycles. Items that will need repair may include: 1) air bag, 2) safety ratchet, 3) scissors, 4) pivots, and 5) valves.

For heavy duty scissor lift systems that requires little maintenance Herkules recommends our Herkules Ball Screw or Belt Drive Scissor Lift Systems. These lift system are designed and manufactured for high duty cycles and long life. Herkules recommends our electric Ball Screw or Belt Drive lift system for high cycle applications.

Operation

STEP 1

Check the weight of the vehicle to be sure that it does not exceed the rated load capacity of the lift: **6,000 lbs.**

STEP 2

Move the Lift Pad Arms into the maximum clearance position (see fig.5).

STEP 3

Position the vehicle over the lift so that it is approximately centered by weight over the center of the lift. Once the vehicle is in the desired position, set parking brake.

STEP 4

Move the Lift Pad Arms into position under the vehicle manufacturer's recommended lifting points. Position desired rubber block on each arm to best accommodate the clearance to each lifting point.

STEP 5

To raise the lift, press the pedal of the foot controller assembly toward the UP position. Hold the pedal in the UP position until vehicle has reached the desired working height, then release. The mechanical safety arms will automatically fall into position as the lift rises.

Do not continue to push the control lever after lift is fully raised, even though safety valve will prevent over-inflation of air bag.

NOTE: Check the stability of the vehicle during the lifting process, and when vehicle is at desired working height. If vehicle is unstable, immediately stop the lifting process, slowly lower the lift and reposition Lift Pad Arms.

STEP 6

To lower the lift, press the pedal of the foot controller assembly towards the DOWN position. Hold the pedal in the DOWN position until the lift is completely lowered and the vehicle's wheels are on the ground. The mechanical safety arms will swing up during descent.

It may be necessary to raise the lift slightly before lowering to relieve pressure on safety arms.

NOTE: Check the stability of the vehicle during the lowering process. If vehicle is unstable, immediately stop and diagnose the issue before continuing to lower the lift.

STEP 7

Once the lift is completely lowered, remove the rubber blocks and return the Lift Pad Arms to the maximum clearance position (see fig.5). Drive the vehicle clear of the lift.

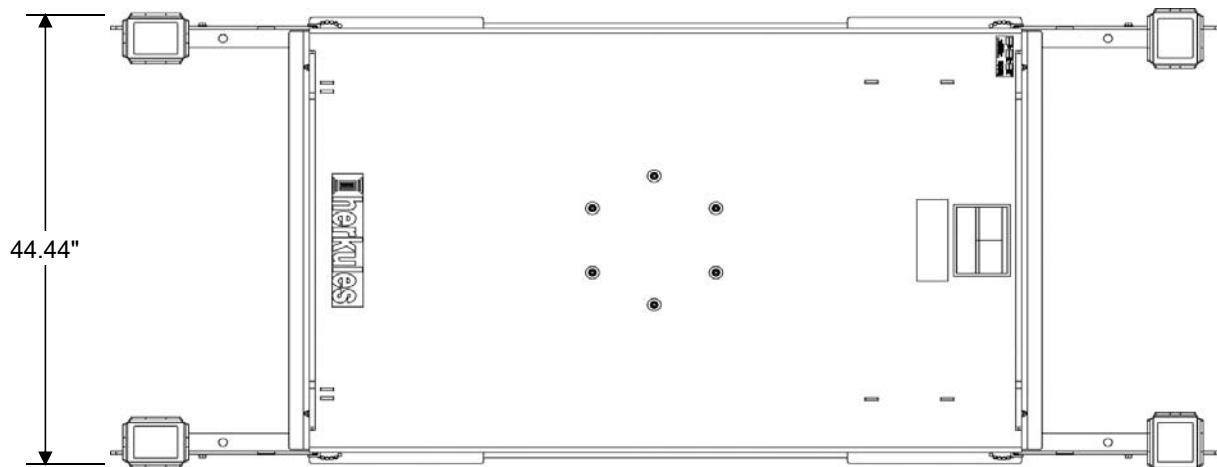




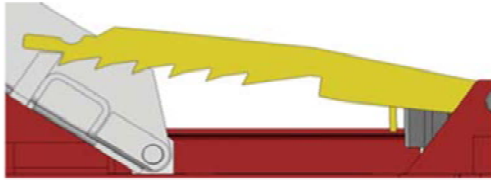
fig.5

Ratchet Operation

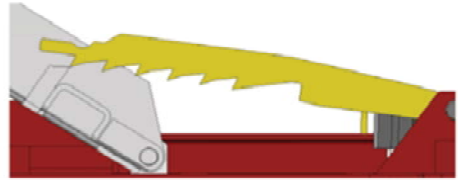
 **DANGER** 

Operating Instructions:


1. Raise the lift to full up position to ensure proper engagement of ratchet lock during descent.
2. Lower lift to desired height.
3. Listen for the safety ratchets to drop as both sides of teeth engage the wedge on the scissors.
4. Visually confirm that both safety ratchets on each side are engaged correctly (see below). Failure to do so will result in property damage and/or personal injury.
5. Before lowering the lift, it must be raised until both safety ratchets are fully disengaged.



CORRECT



INCORRECT

 1007372

Maintenance Instructions

STEP 1

Check clamps and hose connections periodically for tightness to prevent air leakage.

STEP 2

Make sure all moving parts are clean and unobstructed by foreign objects.

STEP 3

Clean filter element every 3 months if applicable.

STEP 4

Grease and oil pivot points once every 3 months.

Lubricate daily if lift is in high cycle application.

STEP 5

Use 90-weight gear lube (SAE 85W 140 EP) to lubricate the pivots and shafts once every 3 months or as needed.

STEP 6

Grease the upper and lower wheel channels every 3 months or as needed.

STEP 7

Lubricate lock mechanism pivot points every 3 months or as needed.

STEP 8

Use overhead rigging when any maintenance beyond external lubrication is required.

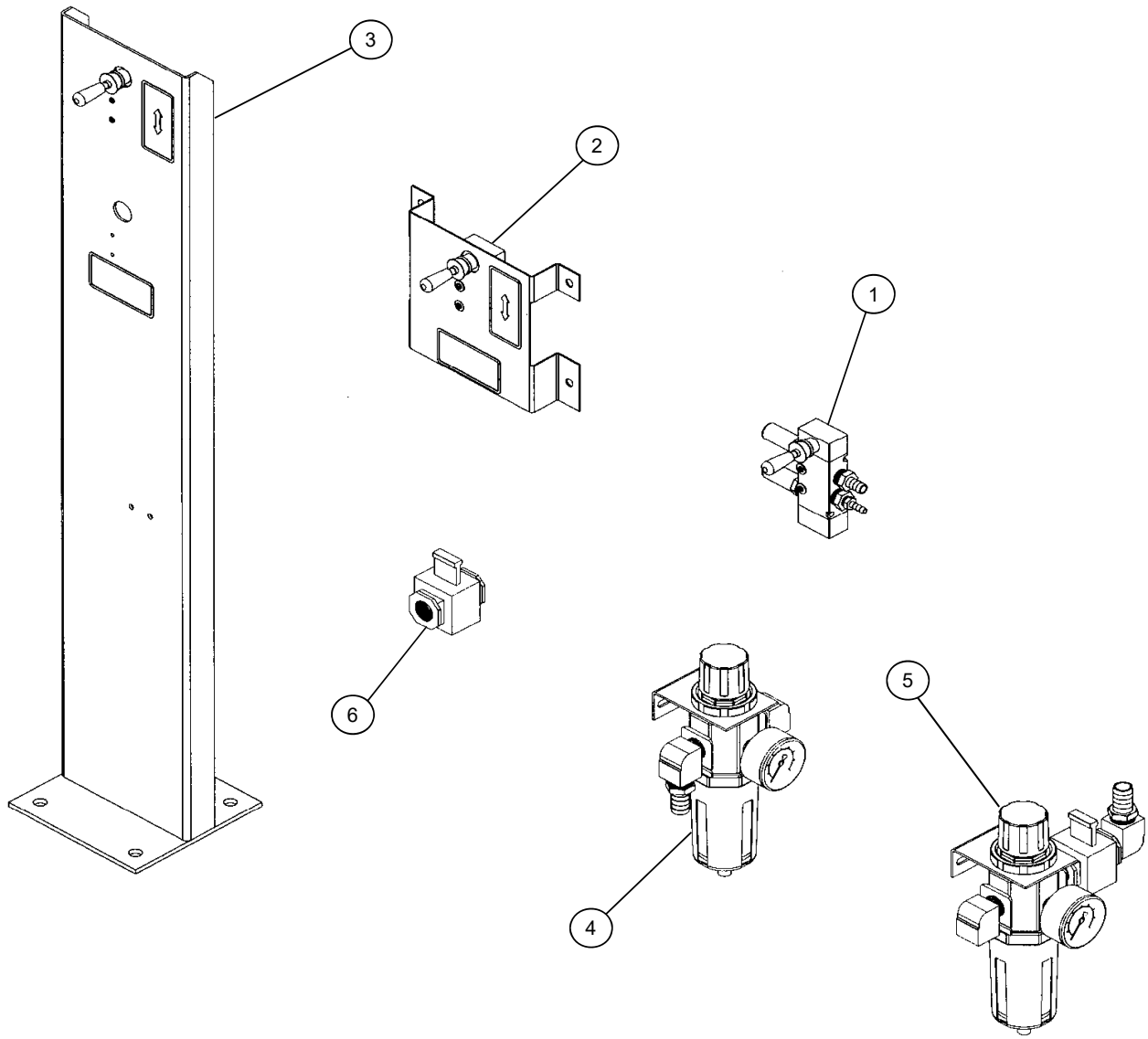
STEP 9

Every 12 months test the pressure relief valve. Remove all loads from the lift system. Secure the lift in the raised position with the ratchet bar and overhead rigging or jack stands. Remove the pressure relief valve from the underside of the lift system. Attach the pressure relief valve to a regulated air line and ensure the valve releases at the rated pressure (standard 3.5 bar). If the valve releases at the rated pressure then reinstall the valve in lift system. If the pressure relieve valve does not release then it **MUST** be replaced with the correct Herkules replacement valve. Lock out and tag out the lift system so it can not be used until the valve is replaced.

Troubleshooting

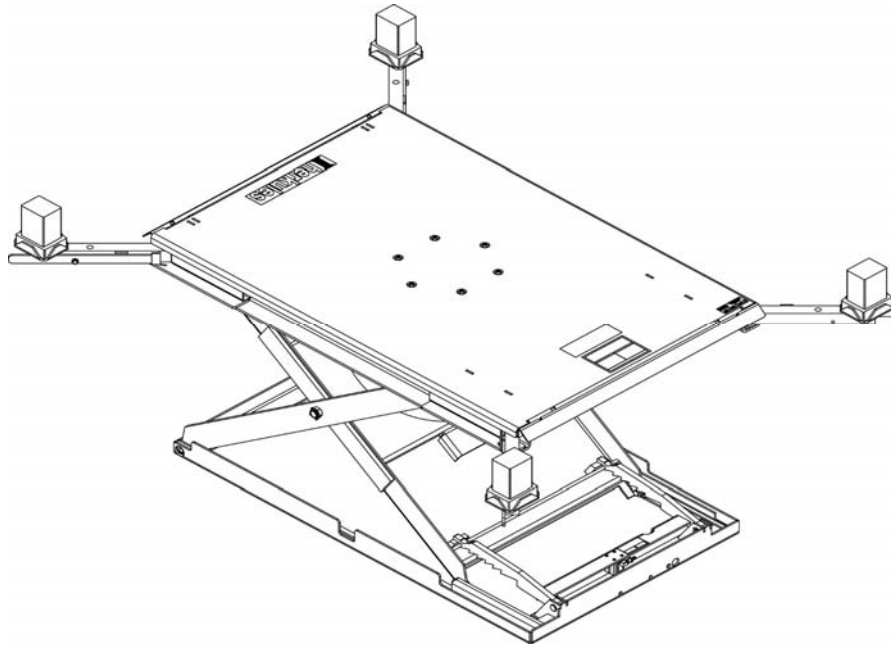
Problem	Possible Solution
Lift will not go up	<ol style="list-style-type: none"> 1 Check that air inlet is connected to the controller. 2 Check to ensure lockout is not engaged (if purchased as option). 3 Check air hoses to ensure no kinks or cuts in the line. 4 Check to ensure no debris is preventing wheels from rolling in track. 5 Check regulator gauge is set to minimum of 80 psi (if purchased as option).
Lift is making a hissing noise	<ol style="list-style-type: none"> 1 Check all air lines to ensure they are properly connected and no leaks are occurring. 2 Check pressure relief valve. <i>If pressure relief valve is "leaking" lower lift immediately. The air bag is in a state of over pressurization.</i> 3 Check air bag for cuts or holes.
Lift is making a squeaking noise	<ol style="list-style-type: none"> 1 Lubricate center joints and wheel tracks.

Optional L1200 Accessories



ID	Part #	Description	Qty	Units
1	12853	Control Valve Assembly - Hand - Lift Only - 2 x Muffler	1	EA
2	12854	Control Assembly - Hand - Lift Only - Wall Mount	1	EA
3	12858	Control Assembly - Hand - Lift Only - Pedestal Mount	1	EA
4	12880	Filter / Regulator Assembly	1	EA
5	12881	Filter / Regulator / Lock Out Assembly	1	EA
6	1002450	Lock Out Valve	1	EA
-	12368	Set of (4) Rubber Blocks - 3-7/8 x 5 x 1-1/2	1	EA
-	12371	Set of (4) Rubber Blocks - 4-3/4 x 4 x 3-1/8	1	EA

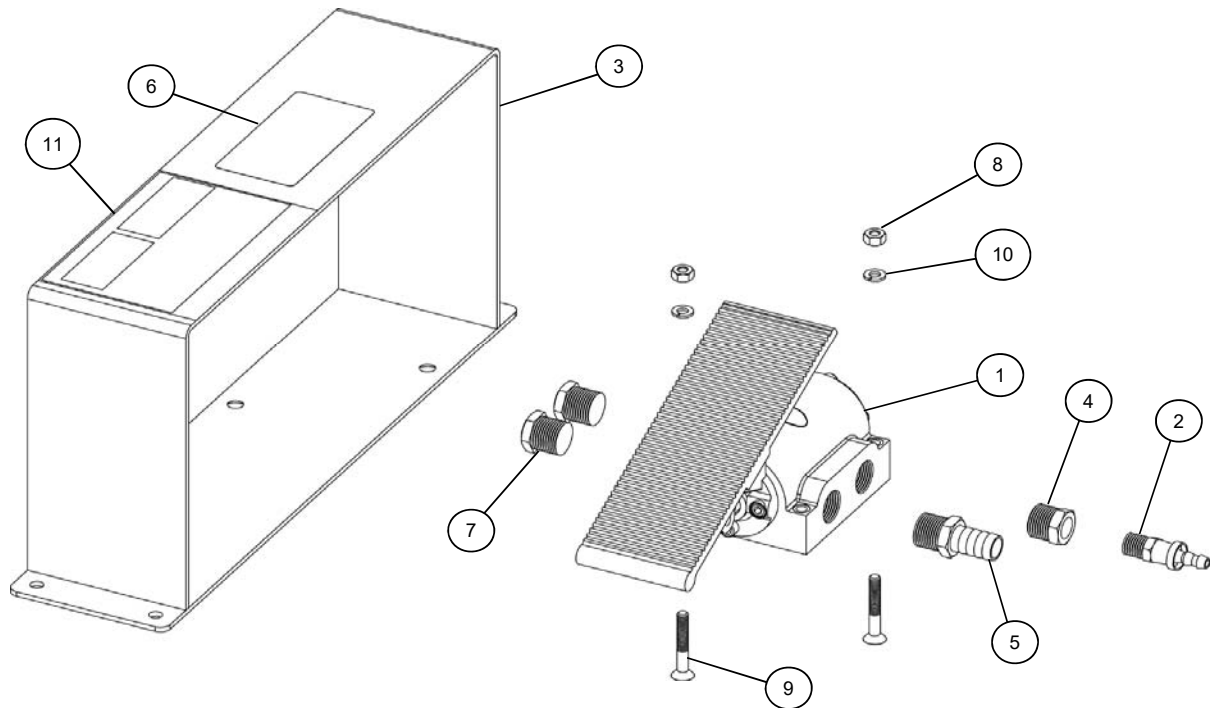
Parts List



Part #	Description	Quantity	Units
994	BLOCK 3-7/8 X 5 X 1-1/2	4	EA.
800-105	BLOCKS 120 X 100 X 80 MM	4	EA.
16381	BOTTOM PAN WELDMENT 61-11/16 X 36-1/8	1	EA.
16382	INNER SCISSOR WELDMENT 58-7/8 X 31-3/4	1	EA.
16383	TOP PAN WELDMENT 62-7/8 X 42-1/2	1	EA.
16384	OUTER SCISSOR WELDMENT L 58-7/8 X 3-1/2	1	EA.
16385	OUTER SCISSOR WELDMENT R 58-7/8 X 3-1/2	1	EA.
16386	SAFETY RATCHET WELDMENT	1	EA.
16387	SAFETY RATCHET AIR CYLINDER ASSY	1	EA.
11296	BLOCK KEEPER FOR L-1200 PLATED	4	EA.
11297	SWING ARM ASSY-A FOR L-1200	2	EA.
11298	SWING ARM ASSY-B FOR L-1200	2	EA.
11328	FOOT CONTROLLER ASSEMBLY FOR L-1200	1	EA.
12962	KIT AIR BAG REPLACEMENT L1200	1	EA.
1001274	HOSE 5/8 ID 250 PSI RUBBER	240	IN.
1001355	BLOCK FOR L-1200 SCISSOR NYLON	6	EA.
100-333	HOSE 1/4" PUSH TO LOK	216	IN.
1000901	STOP BAR FOR L-SERIES LIFTS	2	EA.
1001910	HOSE PROTECTION SLEEVE 1/2"	4	IN.
1001911	HOSE PROTECTION SLEEVE 3/4"	12	IN.
1001925	BOLT SHC 8MM-20 X 20MM Z	12	EA.
1007373	WASHER BONDED 5/16 SS/SEALANT	12	EA.
1001928	VALVE PRES RELIEF 3/8 NPT X 55 PSI	1	EA.
1001929	HOSE BARB 5/8 X 3/8 NPT	1	EA.
1001936	PIN 18MM X 45MM HARDENED FOR L-1200	4	EA.
1001937	PIN 18MM X 55MM HARDENED FOR L-1200	2	EA.
1001938	E-CLIP 16-24 MM	6	EA.
1002327	NUT SLOTTED HEX 7/8-14 GD 5 ZINC	2	EA.
1005431	COTTER PIN 5/32 X 2-1/4 Z	2	EA.
1007082	BOLT HEX 7/8-14 CUT 3-5/16	2	EA.
003-400	NUT HEX 1/2-13 PLAIN	1	EA.
83J	BOLT HEX 1/2-13 X 1-1/2 Z	4	EA.
84J	NUT LOCK 1/2-13 Z	4	EA.
85D	WASHER FLAT 1/2 SAE MIN TH .110 Z	8	EA.
009-153	INSTRUCTION LABEL FOR LIFT	1	EA.
009-152	HERKULES LIFT SERIAL TAGS	1	EA.

see pg.12

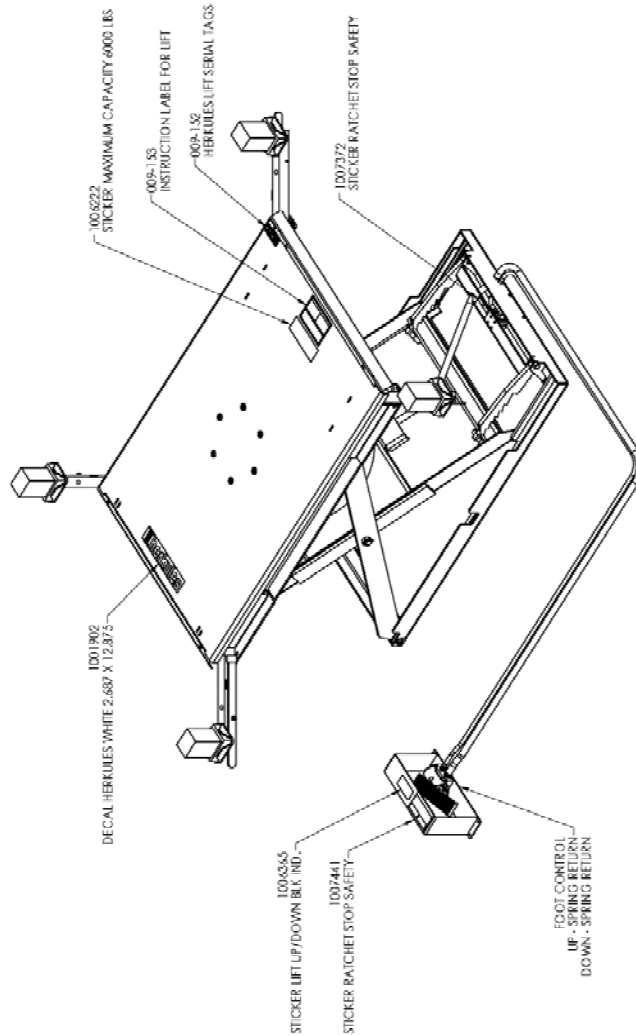
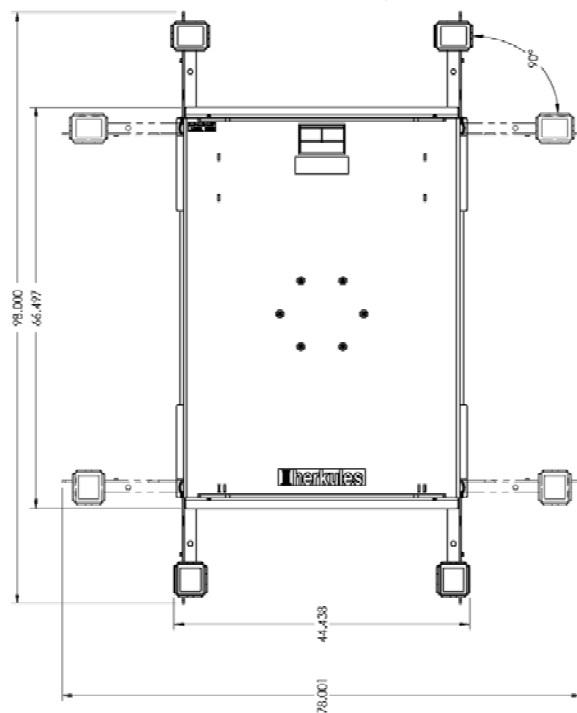
Controller Layout



ID	Part #	Description	Qty	Units
1	754	VALVE 4-WAY FOOT CONTROL 1/2 NPT	1	EA.
2	1004805	HOSE BARB 1/4 X 1/4 NPT BRASS	1	EA.
3	10071	CNTRL MOUNT WELDM SINGLE FOOT	1	EA.
4	66B	RED. BUSHING 1/2 NPT X 1/4NPT BRASS	1	EA.
5	1001393	HOSE BARB 5/8 X 1/2 NPT BRASS	1	EA.
6	1006365	STICKER LIFT UP-DOWN-INDUSTRIAL	1	EA.
7	1001602	VENT BREATHER 1/2 FOR LIFT CONTROLS	2	EA.
8	84	NUT HEX 1/4-20 Z	2	EA.
9	1000996	SCREW FHSC 1/4-20 X 1-3/4 BLACK	2	EA.
10	85	WASHER LOCK 1/4 Z	2	EA.
11	1007741	STICKER RATCHET STOP SAFETY	1	EA.

NOTE: Entire controller assembly is part number 11328

Part #: L1200



LIFT SPECIFICATIONS

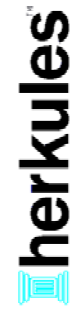
CAPACITY: 6000 LBS
 CONTROLLER: FOOT
 CONTROLLER MOUNT: FLOOR
 INTERNAL VALVE: NONE
 SKIRT: NONE
 COLOR: LIFT: HERKULES BLUE
 SCISSORS: HERKULES WHITE
 RATCHET: HERKULES YELLOW
 SAFETY FEATURES: SAFETY RATCHET

NOTE: ADD SEVEN INCHES TO BASE
 MODULE DIMENSIONS FOR BELLOWS SWIFTING



CONFIDENTIAL

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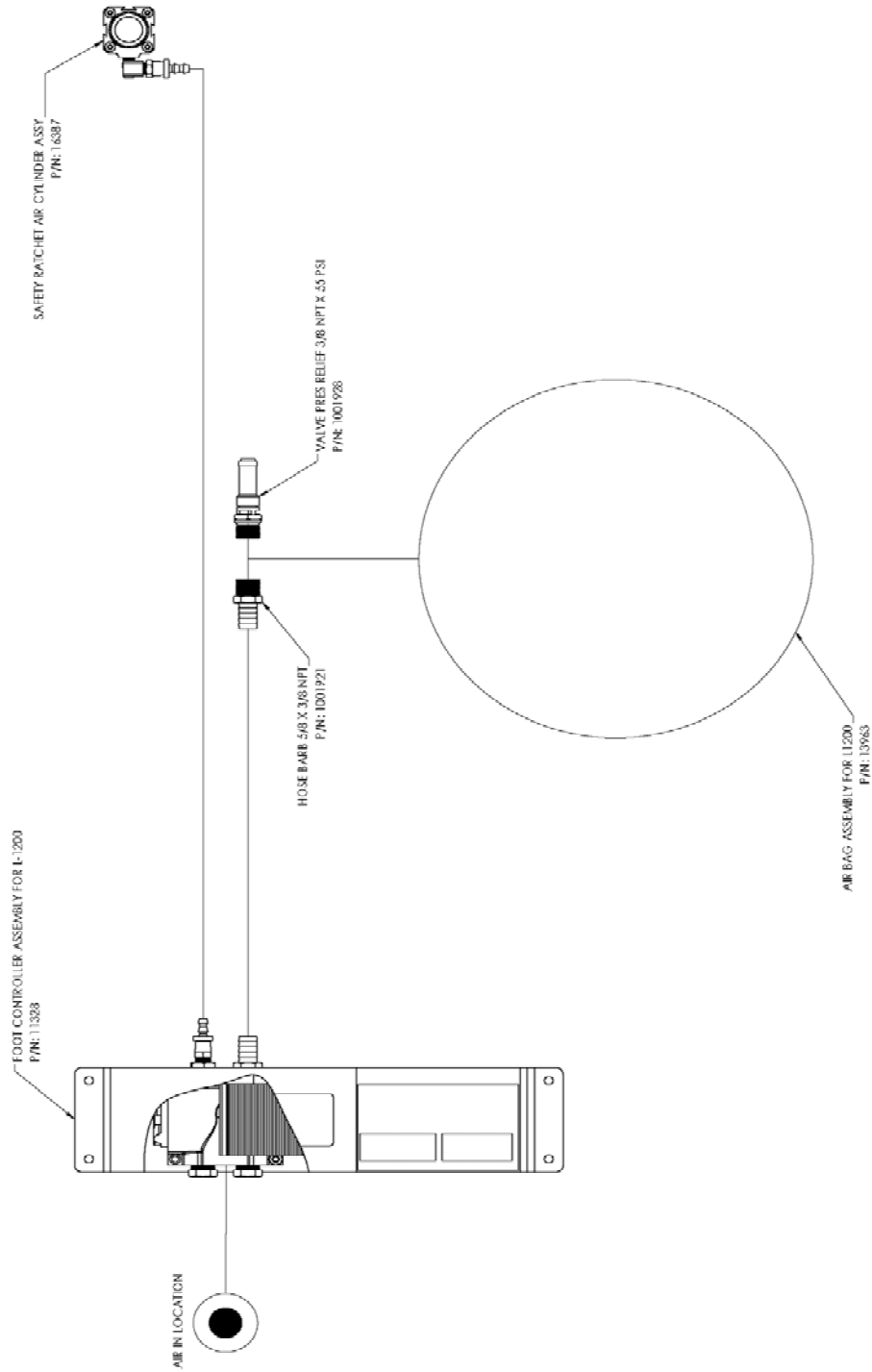


2IN. RATCHET COUPLER • PHILADELPHIA, PA 19104

TITLE: LIFT VEHICLE ADJUSTING ARMS

DATE: 6/29/2006	DATE: 20060305	REV: 1	OF: 1
BY: JP	DATE: 6/29/2006	DATE: 20060305	REV: 1
DATE: 6/29/2006	DATE: 20060305	REV: 1	OF: 1

REF# L1200



herkules 2000 TOYOTA CORP. PUBLISHED IN 409-162	
TOLERANCE UNLESS OTHERWISE NOTED X ± .05 XX ± .05 XXX ± .005 ANGLES ± .1°	
REF# L1200 SCHEMATIC	
DRN: GL 12/13/2016 MATERIAL	
REF# L1200	ONE PT. DRAWING L1200
REV	SHEET 1 OF 1

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