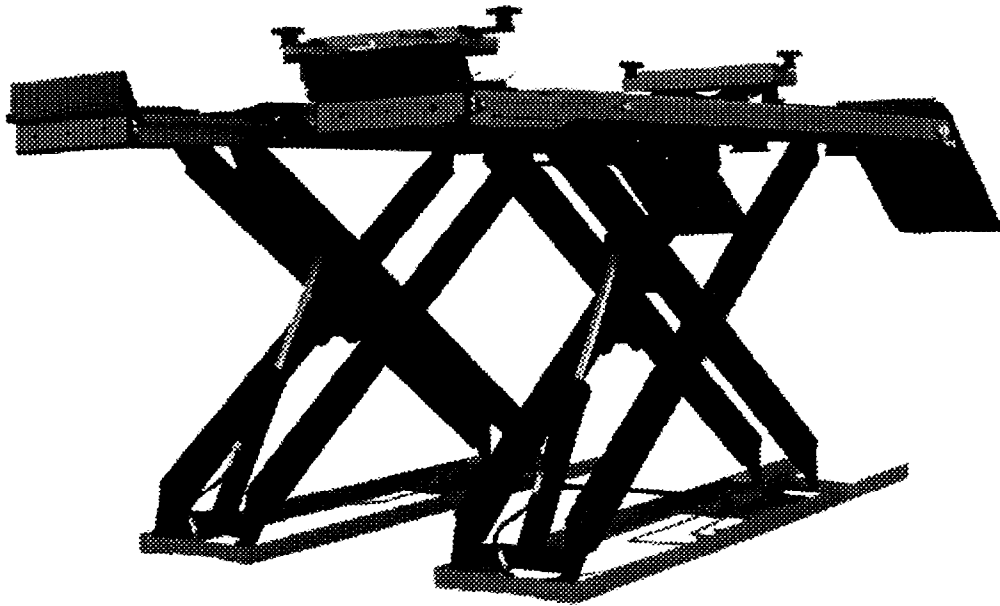




INSTALLATION and OPERATION MANUAL



CE

BAY SAVER II

9,000 LB.

(Model 48109) / (Model 48209)

144 " wb ~ 172 " wb



READ and SAVE THIS
INSTRUCTION MANUAL



309 Exchange Avenue
Conway, Arkansas 72032
Phone (501) 450 - 1500
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JULY 1998

6-1269

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IMPORTANT SAFETY INSTRUCTIONS

When using this lift, basic safety precautions should always be followed, including the following:

1. Read all instructions.
2. Care must be taken as burns can occur from touching hot parts.
3. Do not operate the lift with a damaged cord or if the lift has been damaged - until it has been examined by a qualified service person.
4. Never allow the cord to be positioned under the lift or in an area where it could get crushed or come in contact with hot or moving parts.
5. If an extension cord is necessary, a cord with a current rating equal to or more than that of the lift should be used. Cords rated for less amperage than the lift may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
6. Never unplug the lift from the electrical outlet during operation. Always disconnect power when not in use. Never yank the cord to pull plug from outlet. Grasp plug and pull to disconnect.
7. To protect against the risk of fire, do not operate lift in the vicinity of open containers of flammable liquids.
8. Adequate ventilation should be provided when working on internal combustion engines.

SAVE THESE INSTRUCTIONS

1. SPECIFICATIONS

Maximum Capacity:
 Overall Width:
 Width Between Runways:
 Overall Length (144"W/B):
 Overall Length (172"W/B):
 Max. Raised Height:
 Min. Lowered Height:
 Lifting Time:
 Power Requirements (Standard):
 Shipping Weight (144"W/B):
 Shipping Weight (172"W/B):

9000 lbs.	4100kg
84"	2134mm
36"	914mm
234"	5944mm
264"	6706mm
72"	1829mm
8 3/4"	222mm
60 Sec.	
230 Volts, 1Ph., 60Hz.	
3450 lbs.	1565 kg
3560 lbs.	1615 kg

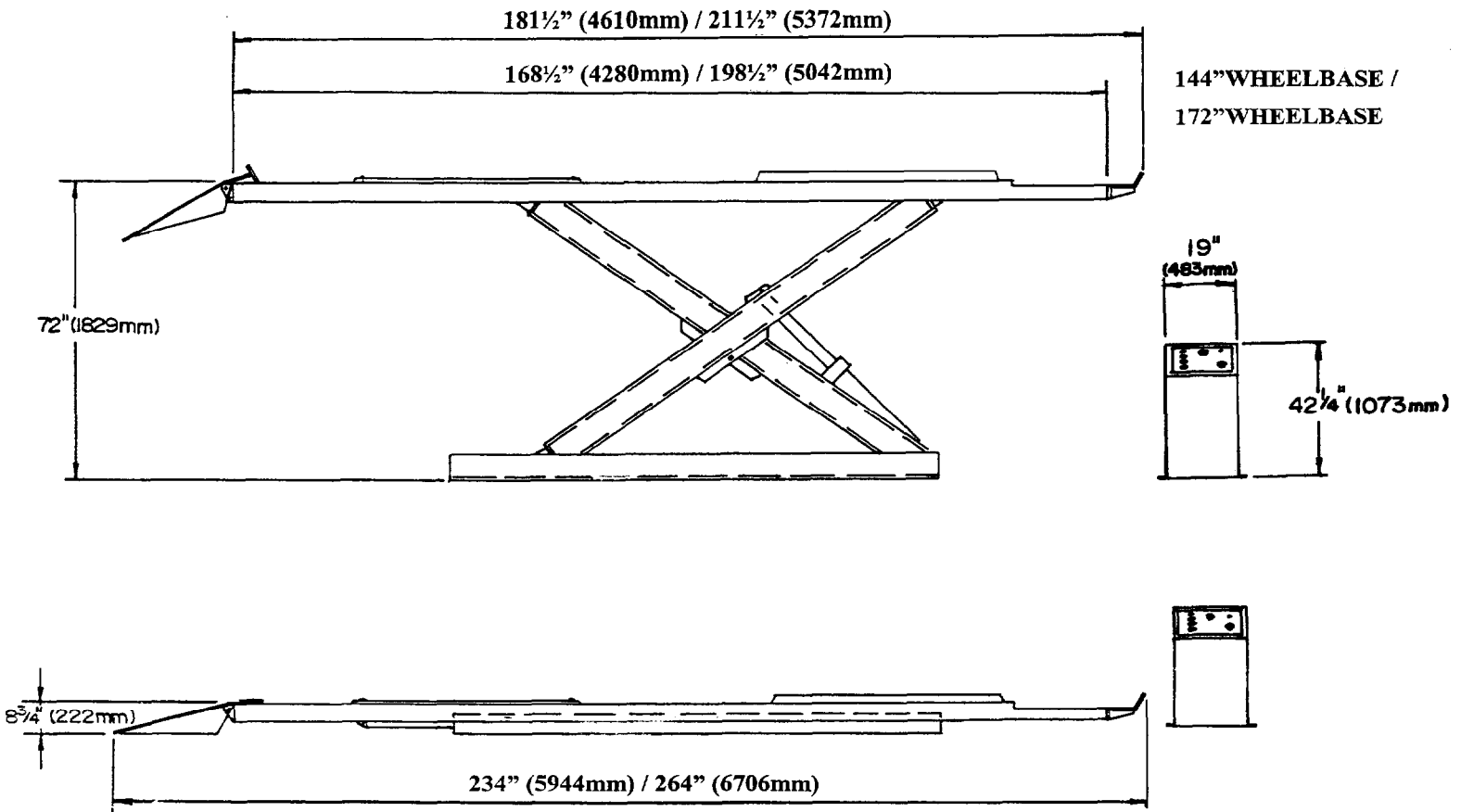


Figure 1: Lift Dimensions

CHECK CONTENTS OF ACCESSORY BOX WITH PACKING LIST ENCLOSED IN BOX.

2. CONTENTS

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

1. The **main structural components** are pre-assembled and packaged one on top of the other.
2. The remaining parts are packed in an **accessory box**.

Main Structural Components includes:

- 1pc. - Left Side Main Frame Assembly; Runway, Scissors and Base Frame
 - 1pc. - Right Side Main Frame Assembly; Runway, Scissors and Base Frame
- Note:** Hydraulic lines in base frames have been factory installed

Accessory Box Contents:

- 1pc. - Control Console (includes all hoses with fittings)
- 2pcs. - Approach Ramps
- 2pcs. - Front Wheel Stops
- 2pcs. - Ramp Pins
- 2pcs. - Mechanical Safety Release Rod
- 1pc. - Mechanical Safety Release Connecting Rod
- 5pcs. - Hydraulic Line Covers
- 1pc. - Center Cover
- 1pc. - Center Hydraulic Line
- 3pc. - Recoil Hose
- 1pc. - Safety Cover (Air cylinder release)
- 2pcs. - Safety Release Tab
- 8pcs. - Shim Plate, 1/16"thk.
- 8pcs. - Shim Plate, 1/8"thk.
- 8pcs. - Shim Plate, 1/4"thk.
- 1pc. - Installation Hardware Kit (comes with separate packing list)
- 1pc. - Assembly Hardware Kit (comes with separate packing list)
- 1pc. - Owners Manual
- 1pc. - ALI manual "Lifting It Right"
- 1pc. - Automotive Lift Safety Tips
- 1pc. - Automotive Lift, Operation, Inspection, and Maintenance manual

3. TOOLS REQUIRED FOR INSTALLATION:

- * Rotary Hammer Drill or Similar, 1/4" and 1/2" Concrete Drill Bits
- * 4' Level
- * SAE Wrenches and Sockets
- * Hammer
- * Pry Bar
- * Chalk Line
- * Tape Measure
- * Side Cutters
- * Screw Drivers
- * Hydraulic Fluid ISO 32 (10 weight hydraulic oil) - (20 liters / 5.3Gal.)

4. INSTALLATION INSTRUCTIONS

When the lift arrives on site, please read the owner's manual completely. Check the contents to make sure no parts are missing before starting installation. Gather all the tools listed and make sure the installation instructions are fully understood before commencing with the installation.

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 five (5) inches or 130 mm. Concrete must have a minimum strength of 4000 psi or 30 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.

4.1 BAY LAYOUT

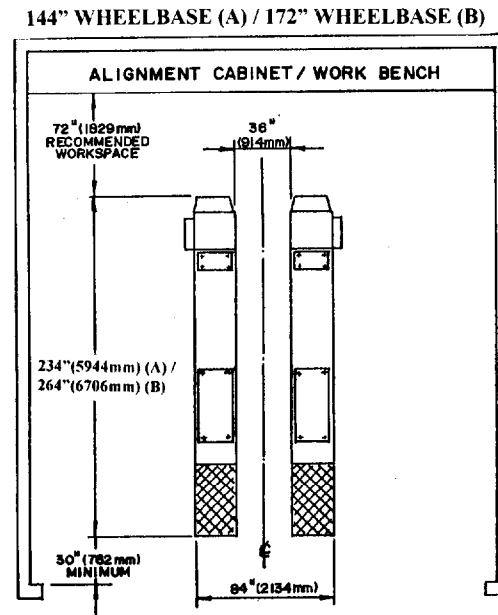


Figure 2: Typical Bay Layout

IMPORTANT: DO NOT UNBOLT SHIPPING CLAMPS HOLDING EACH MAIN FRAME ASSEMBLY TOGETHER UNTIL INSTRUCTED TO DO SO.

1. After selecting the location best suited for your lift, draw a line parallel to the front of the lift, approximately 72" (1829mm) back from the cabinet/work bench area. This will be the approximate location of the front of the lift.

NOTE: Check the installation area for obstructions. (Overhead; light fixtures, heating ducts, ceiling, and In-ground; floor drains, electrical, etc...)

2. Mark on the floor an outline matching the dimensions listed.

BAY SAVER II - 144"(3658mm) Wheel Base. Overall dimensions are 234"(5944mm) x 84"(2134mm).
- 172"(4369mm) Wheel Base. Overall dimensions are 264"(6706mm) x 84"(2134mm).

3. Draw a center line down the middle of the outline starting at the front of the lift location and ending at the rear approach ramps.
4. Draw two lines parallel to the center line 18" (457mm) on either side to locate the inside of the baseframes.
5. Draw a line parallel to the front of the lift, 39" (991mm) back for 144"W/B models and 49" (1245mm) back for 172"W/B models. Align the front of each base frame assembly onto this line.
6. Check the floor in the outline for the highest point using a four (4) foot level. Mark this location, reference will be made to it later during the leveling procedure.

4.2 UNPACKING PROCEDURE

1. Cut and remove the metal banding straps that hold the accessory box (and sliding Jack Beams if so equipped) and place in a convenient location near the installation area.
2. Cut and remove the metal banding straps surrounding the Two Main Frame Assemblies. Position the Main Frame Assemblies in the location previously marked in the bay layout.

NOTE: To distinguish between the left and right Main Frame Assemblies the pull-out step should be located at the front facing outward from the lift. All measurements are to be taken from the front of the lift.

3. Check that the inside of the base frames are 18" (457mm) away from the center line at both the front and rear of each main frame assembly and that the front of each base frame is on the line drawn in step 5 of the bay layout, section 4.1.
4. Unpack Control Console and locate in the selected position best suited for the power pack, keep in mind; that the location is restricted by the length of the hydraulic hose 21'(6401mm), and the hydraulic inlet is on the Left Side of the Left Main Frame Assembly.

4.3 HYDRAULIC INSTALLATION

NOTE: When working with hydraulics it is important to keep all components clean. All hydraulic connections are 37 ½° JIC flares.

1. Remove the back cover of the Control Console. The power pack is located inside the console.
2. Remove the breather filler cap and fill with 20liters/5.3Gal. of ISO 32 hydraulic fluid.
3. Remove the two (2) hydraulic hoses, one (1) braided hose, and one (1) polytube from the console. Refer to **Figure 3**. Route all four (4) hoses to the inlet ports located on the left side of the left main frame assembly.
4. Close the back cover of the Control Console making sure all four hoses are routed through the slot located at the bottom of the back cover.
5. Locate the two (2) 21' (6401mm) long hydraulic hoses mounted from the back of the console. Connect them to the two (2) inlet ports of the lift. The inlet ports are located on the left side of the left main frame assembly. Refer to **Figure 4**.
6. Connect one end of the center hydraulic line to the outlet side of the left main frame assembly and the other end to the inlet side of the right main frame assembly. Tighten the hydraulic line in place so that it runs along the floor giving it a low profile.

IMPORTANT: THE SHIPPING CLAMPS HOLDING EACH MAIN FRAME ASSEMBLY TOGETHER MUST BE UNBOLTED BEFORE CONNECTING ELECTRICAL POWER. THERE ARE TWO (2) CLAMPS ON EACH ASSEMBLY.

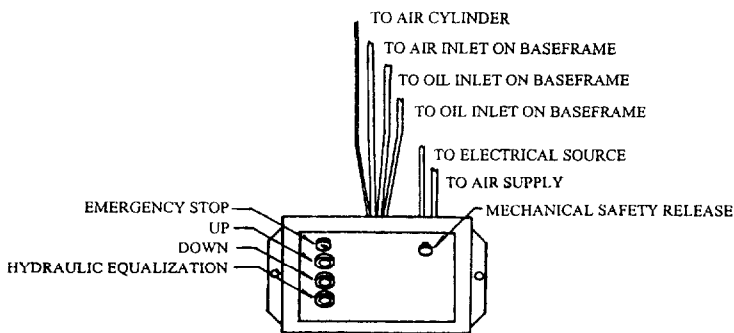


Figure 3: Hydraulic/Air Connections

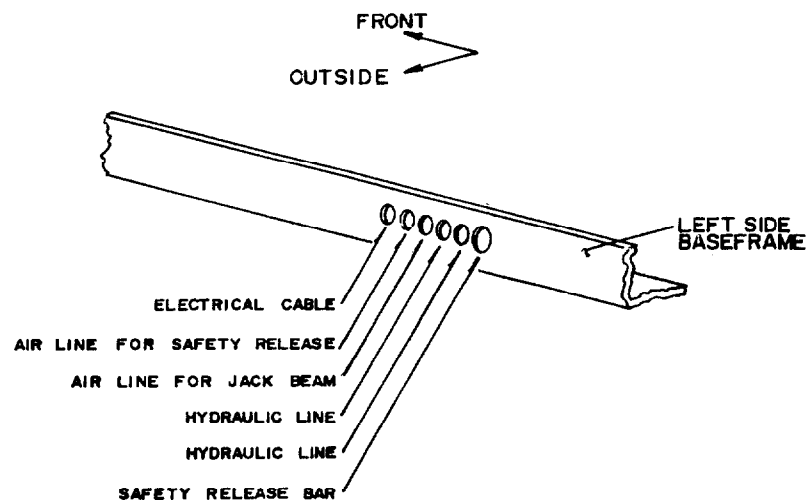


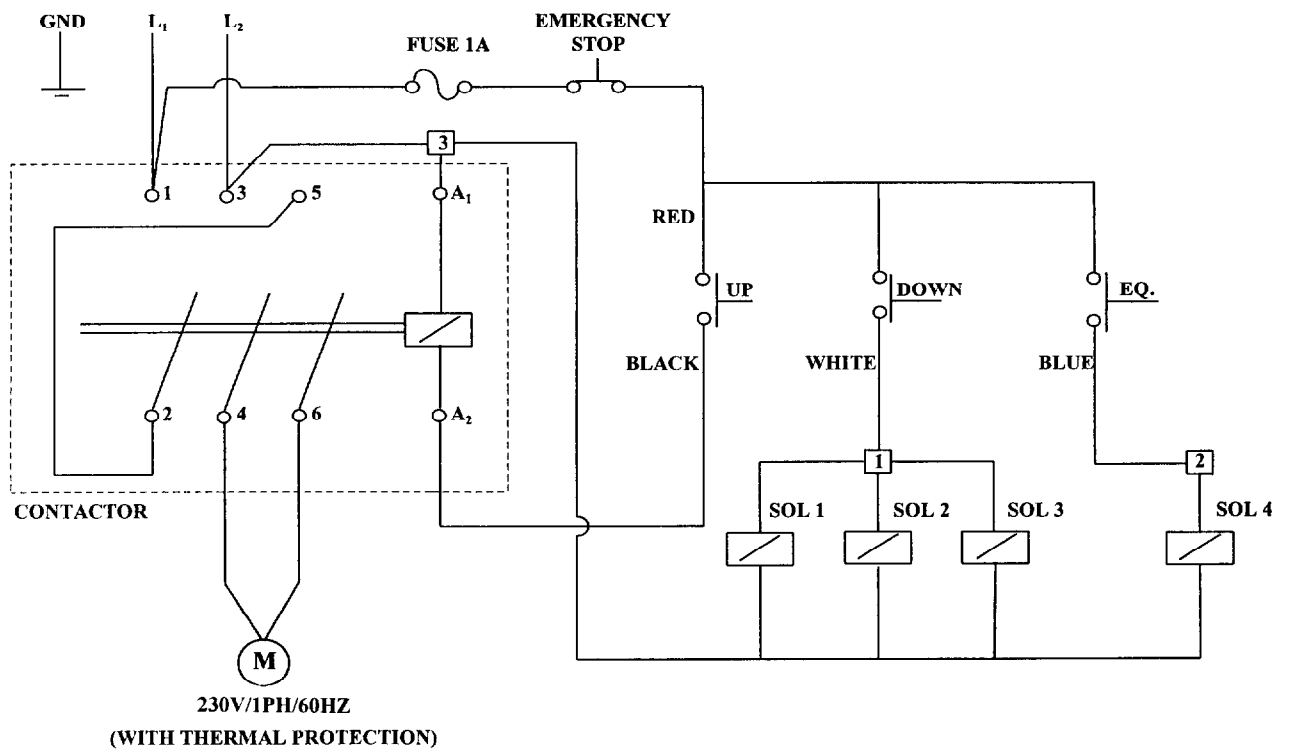
Figure 4: Left Baseframe Connections

4.4 ELECTRICAL INSTALLATION

IMPORTANT: ALL FINAL ELECTRICAL CONNECTIONS SHOULD BE MADE BY A QUALIFIED ELECTRICIAN.

Please refer to **Figure 5**, the electrical diagram.

NOTE: The electrical connections have been pre-wired from the power pack to the control buttons of the control console.



NOTE: SOL 1, & 3 - FLOW DIVIDER
 SOL 2 - PUMP
 SOL 4 - FLOW DIVIDER EQUALIZER
 □ - MARRETTS

Figure 5: Electrical Schematic; 230 Volt, 1Ph., 60Hz.

IMPORTANT: WITH THE MAIN ELECTRICAL SUPPLY CONNECTED, PRESS THE UP CONTROL BUTTON TO RAISE THE LIFT 10" (254mm). STOP, THEN PRESS THE DOWN CONTROL BUTTON TO LOWER THE LIFT. REPEAT THIS PROCEDURE THREE (3) TIMES TO RELIEVE AIR FROM THE HYDRAULIC SYSTEM. CHECK FOR HYDRAULIC LEAKS AT ALL CONNECTIONS. FIRST PRESS THE DOWN BUTTON THEN PRESS THE HYDRAULIC LEVELING BUTTON TO COMPLETE THE BLEEDING PROCEDURE.

4.5 MECHANICAL SAFETY INSTALLATION

1. Locate the two (2) mechanical safety release rods and one (1) mechanical safety release connecting rod.
2. Raise the lift by pressing the up control button.
3. Slide the mechanical safety release rod (contains one flat section) into the right main baseframe assembly.
NOTE: The safety release rod with two (2) flats is for the left main baseframe assembly.
4. Slot in end of the bar should be parallel to the ground when center cut-out points up toward the front. Refer to **Figure 6**.

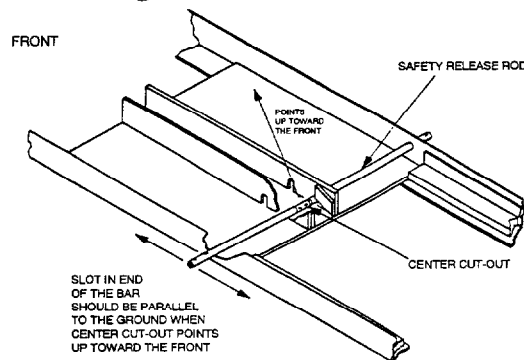


Figure 6: Safety release rod location/Right Baseframe

5. Install the rectangular safety release tab using 2; $\frac{1}{4}$ " - 20 UNC x $\frac{3}{4}$ " long hex bolts and lock washers. The safety release tab bolts to the flat surface of the safety release rod located under the mechanical safety locking bar.
6. Repeat step 5 for the left main baseframe assembly using the other safety release rod as shown in **Figure 7**. **Figure 4** shows the position of the hole for the safety release rod on the left side of the left main frame assembly.
7. Using **Figure 7** attach the rod end to the air cylinder, and assemble it to the safety release plate using the shoulder bolt supplied in the hardware kit. Connect the safety release plate to the safety release rod using two bolts, and lockwashers.

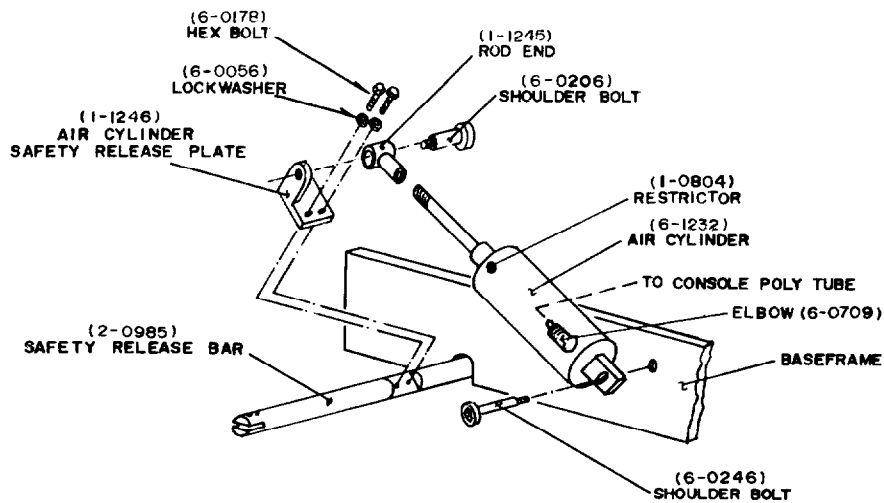
8. Assemble the restrictor and 90° elbow to the air cylinder as shown in **Figure 7**. Attach the air cylinder to the baseframe using the shoulder bolt provided.
9. Install the safety release connecting rod between the safety release rods, using ¼" - 20 UNC x 1 ¼" long hex bolt, nut and lock washers one on each end of the rod.
10. Tighten all installation hardware.
11. Route the air line (22' braided hose) for Jack Beams to the air line fitting in the air inlet on the left baseframe. Refer to **Figure 4**.
12. **FOR THOSE UNITS EQUIPPED WITH SLIDING JACK BEAMS NOW IS THE TIME TO INSTALL THE JACK.** Lower lift and consult instructions supplied with each Jacking Beam.

4.6 PNEUMATIC SYSTEMS INSTALLATION

NOTE: A MECHANICAL SAFETY RELEASE CONTROL BUTTON ON THE CONTROL CONSOLE WILL RELEASE THE MECHANICAL SAFETY FOR LOWERING OPERATIONS.

1. Route the 30' polytube next to the hydraulic hoses to the inlet of the lift, through the base of the left main frame assembly shown in **Figure 4**, and into the 90° elbow attached on the air cylinder. Refer to **Figure 7**.
2. Connect an air supply line from the customer's shop to the air inlet at the rear of the control console. Refer to **Page 22**. The air supply line should have an operating pressure of 90-120psi (6-8 bar). Check for leaks.

REAR



FRONT

Figure 7: Air Operated Mechanical Safety Release/Left Baseframe

4.7 AIR AND OIL SCHEMATIC

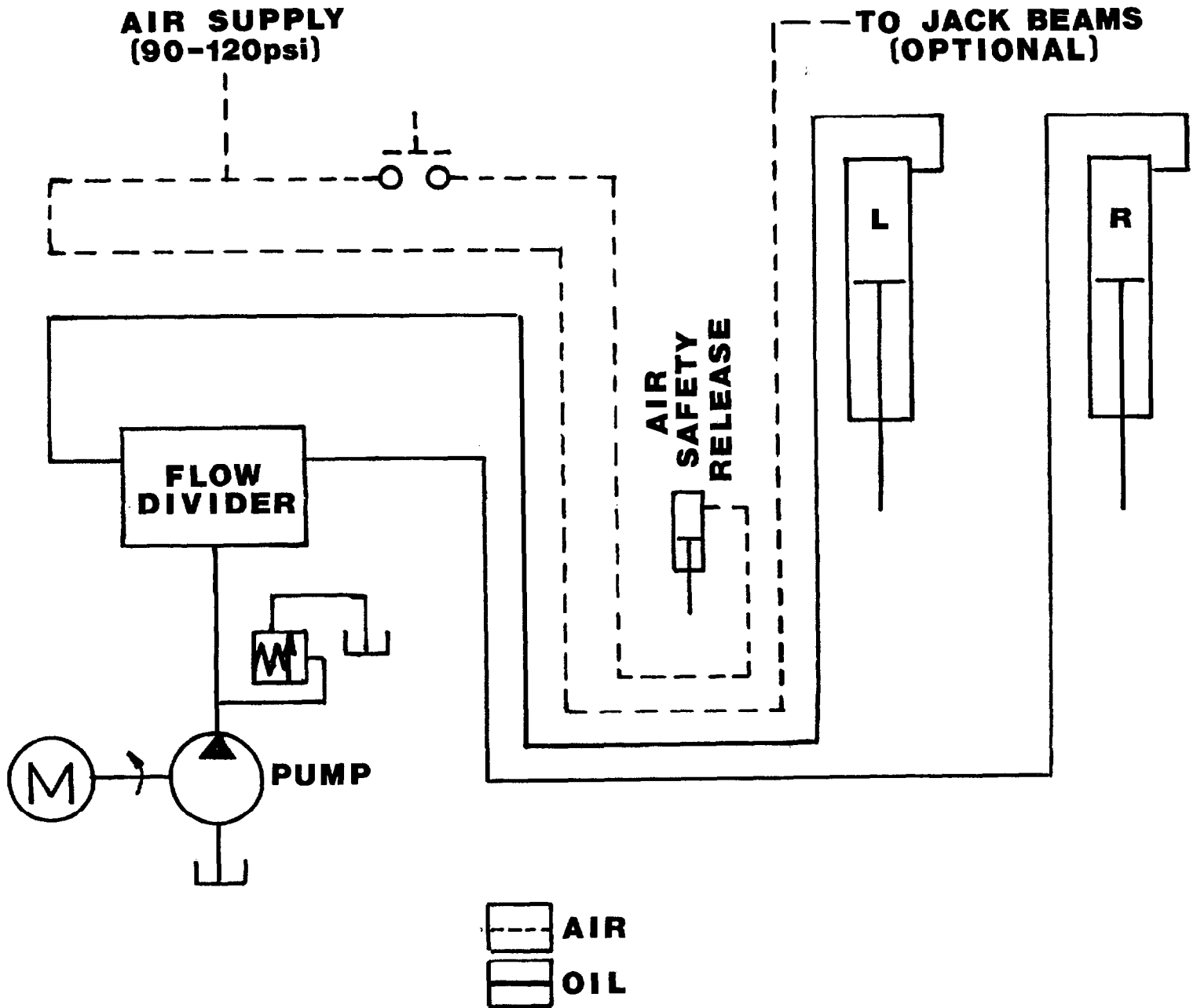


Figure 8.

4.8 LEVELING PROCEDURE

1. The highest point on the floor, noted from Section 4.1 step 6 is the point from which the base frame will be leveled from. Raise the lift to full height and check using a four (4) foot level across the base frame should again verify that this is the highest point.
2. Starting at the corner closest to the highest point, check along the length of the base frame edge with the four foot level and shim as required. **NOTE THE FIVE CRITICAL POSITIONS THAT SHIMS MUST BE PLACED ON EACH BASE FRAME OF EACH MAIN FRAME ASSEMBLY.** Refer to **Figure 9**.
3. Continue shimming across that base frame from side to side, and front to rear.
4. Once one frame is completely leveled, level the inside rails of the base frames to one another.
5. Now level the remaining outside half of the last base frame by placing the level across that unit and shimming as required.
6. A quick check across, along and between each base frame will ensure the leveling procedure was carried out successfully.

LEVELING EXAMPLE: FIGURE 9

Assuming that the front right corner is the highest point level in the following order:

- Shim along side "A"
 - Shim across from side "A" to side "B" (check along side "B" from front to back)
- The Right Side base frame should now be leveled.**
- Shim across from side "B" to side "C" (check along side "C" from front to back)
 - Shim across from side "C" to side "D" (check along side "D" from front to back)

Both base frames should now be leveled from front to back and side to side.

NOTE: Base frame leveling should be performed as a reference before main leveling of the decks. One last check before anchoring is to make sure that there is 36" between the baseframes.

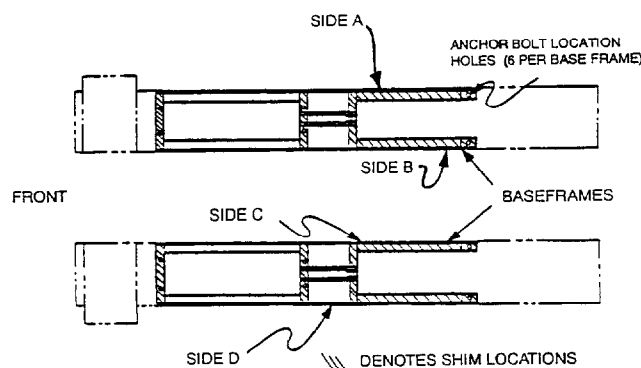


Figure 9: Leveling Procedure Example

4.9 ANCHORING PROCEDURE:

1. Using a rotary hammer drill and a ½" concrete drill bit, drill through the floor at six (6) anchor bolt locations (144" W/B), and eight (8) anchor bolt locations (172" W/B) on each of the base frames. Make sure that the ½" concrete drill is in good condition. Refer to **Figure 10**.
2. Insert the ½" x 4 ½" long wedge anchor bolts supplied, place a flat washer and nut on each anchor. Tighten securely.
3. Torque all anchor bolts to 150 ft. lbs.
4. With all anchor bolts torqued as specified operate the lift checking its full operation.

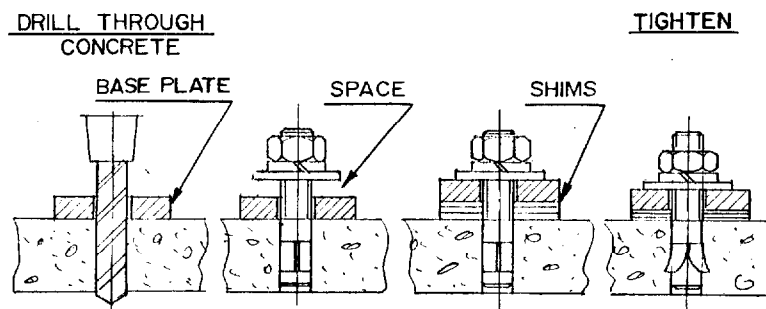


Figure 10: Anchoring

4.10 INSTALLATION OF COVERS, WHEEL STOPS AND APPROACH RAMPS:

1. Locate and install the center cover over the mechanical safety release connecting rod and center connecting hydraulic line. Install using the four (4) ¼" - 20 UNC x ¾" long hex head bolts, flat washers and lock washers.
2. Check to make sure that the safety release connecting rod does not bind during operation.
3. Locate and install protective line covers over all air and hydraulic supply lines on the left side base frame of the left main frame assembly.
4. Using a rotary hammer drill and a ¼" concrete drill bit, drill all line cover locations. Using the ¼" concrete nails supplied fasten the line covers to the floor.
5. Locate and install the two (2) front wheel stops; one (1) to the front of each of the runways using the six(6) 1/2" - 13 UNC x 1 1/2" long hex head bolts, flat washers, and lock washers.
6. Install the approach ramps using ramp pins, washers, and cotter pins.

5. OPERATING INSTRUCTIONS:

5.1 RAISING THE LIFT:

1. If the lift is equipped with Sliding Jack Beam(s) be sure that the Beam(s) are positioned at the front or mid travel of the lift, fully down, with the risers removed and stored. Never store Jack Beam(s) at the rear of the lift.
2. Be sure that the lift is fully lowered before attempting to load or unload a vehicle.
3. Position the vehicle on the lift ensuring the resulting load on each deck is as equal as possible.

NOTE: The vehicle is positioned correctly when the distance from the center of the tires to the inside edge of the runways is equal on both runways, for the front and rear tires.

4. Check that there are no obstructions above the lift that could damage the lift or vehicles.
5. Raise the lift by pressing the up control button. Raise the lift up, continue to raise, past the desired working height until the mechanical safety drops into position. Stop raising, now press the down control button to lower the lift down onto both of the mechanical safeties.

NOTE: NEVER WORK UNDER A VEHICLE OR THE LIFT UNLESS IT IS POSITIONED ON BOTH MECHANICAL SAFETIES!!!

5.2 LOWERING THE LIFT:

1. Check that there are no obstructions under the lift or vehicle. Be sure that the Sliding Jack Beams are fully lowered and positioned at the front or mid section of the lift.
2. Raise the lift by pressing the up control button until the mechanical safety bars are off of their stops. Stop raising.
3. Depress the air safety release button (brass) to disengage the mechanical safety locking bars. Continue to hold the button while pressing the down control button.
4. Continue lowering until the lift is approximately 34" (864mm) above the floor. Then release the mechanical safety release button, allowing the mechanical safety locking bars to be readied for their next use. Continue to depress the down button until the lift is completely lowered.

NOTE: The operator must always keep their attention on the operation of the lift while raising or lowering.

5. Be sure that the lift is completely lowered before removing the vehicle from the lift.

5.3 HYDRAULIC LEVEL RESET PROCEDURE:

1. It is normal for the lift to require hydraulic equalization.
2. The purpose of the hydraulic leveling is to allow hydraulic adjustment to the level so that the two (2) runways are at the same height. To do this the lift must be lowered completely (one runway may be higher than the other).

NOTE: Hydraulic leveling should be performed when the safety is engaged.

3. When the lift is lowered completely (with one runway higher than the other), depress the Down Control Button on the Console. Continue depressing while pressing the Hydraulic Level Reset button. This will allow the higher side to lower completely. When the two (2) sides have equalized, release the buttons. The lift is now leveled and ready for continued operation.

NOTE: Refer to Figure 3 for location of the Hydraulic Equalization Button.

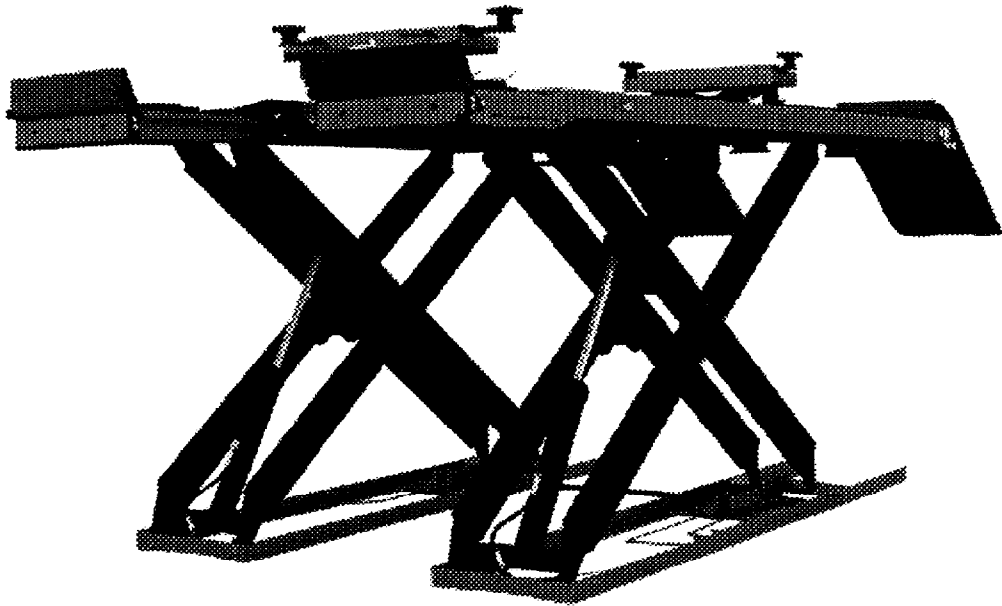
6. RECOMMENDED MAINTENANCE:

1. Adjust level of lift daily. (Section 5.3)
2. The lift should be greased at least once every two months. There are six (6) points on each lift that will take grease: four (4) on the scissors hinges and one on each of the two (2) hydraulic cylinder rod eyelet's.
3. The fluid level in the reservoir should be checked periodically. Be sure that the lift is fully lowered when checking. The hydraulic fluids should be changed once every five years. Use only ISO 32 hydraulic fluid.
4. The roller tracks should always be kept clean and free of debris. This area should be checked before any raising or lowering of the lift.
5. Inspect the operation of the lift daily. Raise and lower fully.
6. Inspect electrical and mechanical operations of all switches, electrical and mechanical.
7. Lifts equipped with full floating rear slip plates and front radius turning plates, require to be disassembled and cleaned once every 3 months. More frequently with lifts that are in areas with more exposure to sand and salt.

NOTE: Locking pins should always be installed on front and rear plates before attempting to drive a vehicle on or off the lift.



PARTS MANUAL



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144 " wb ~ 172 " wb

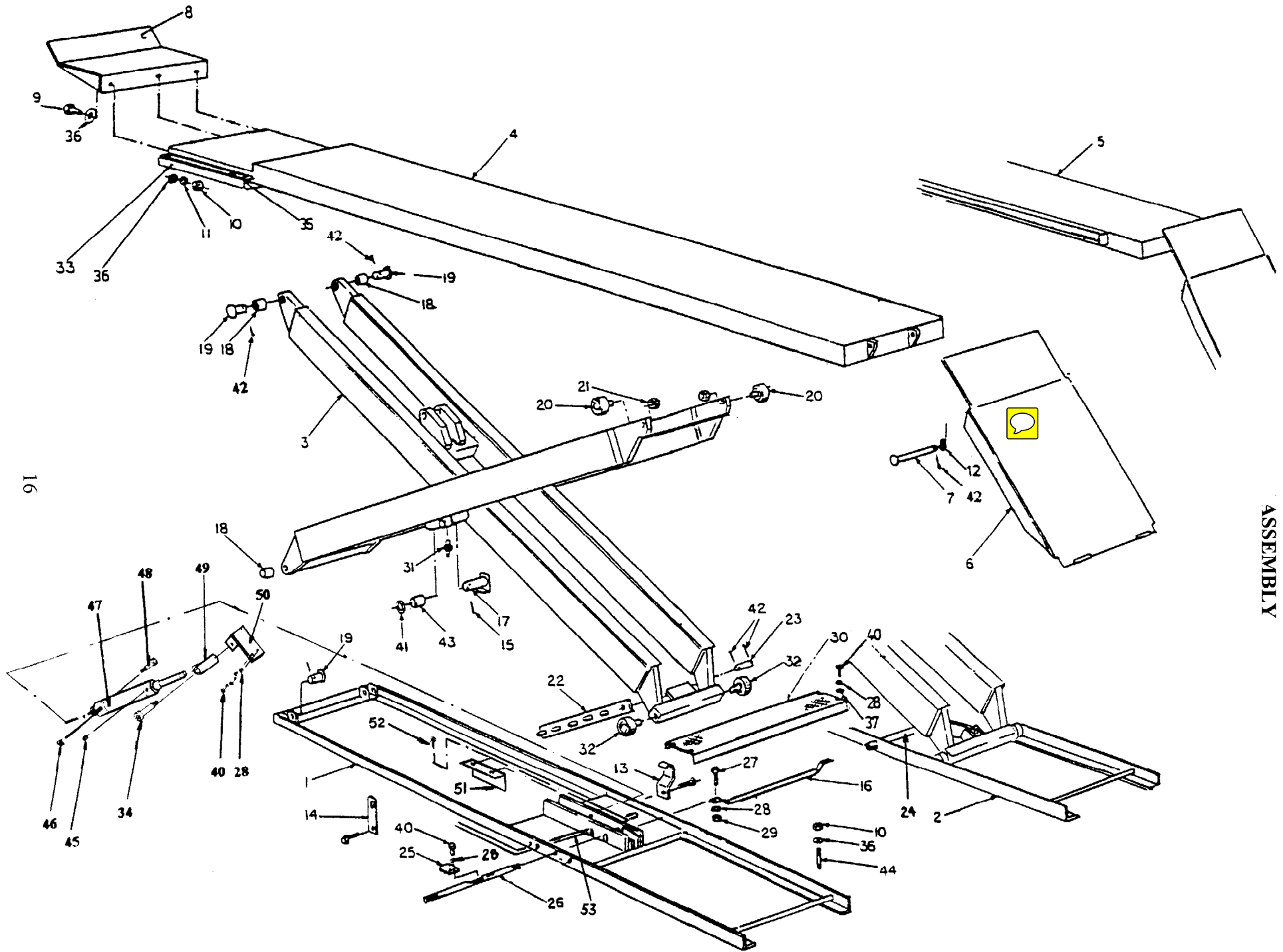


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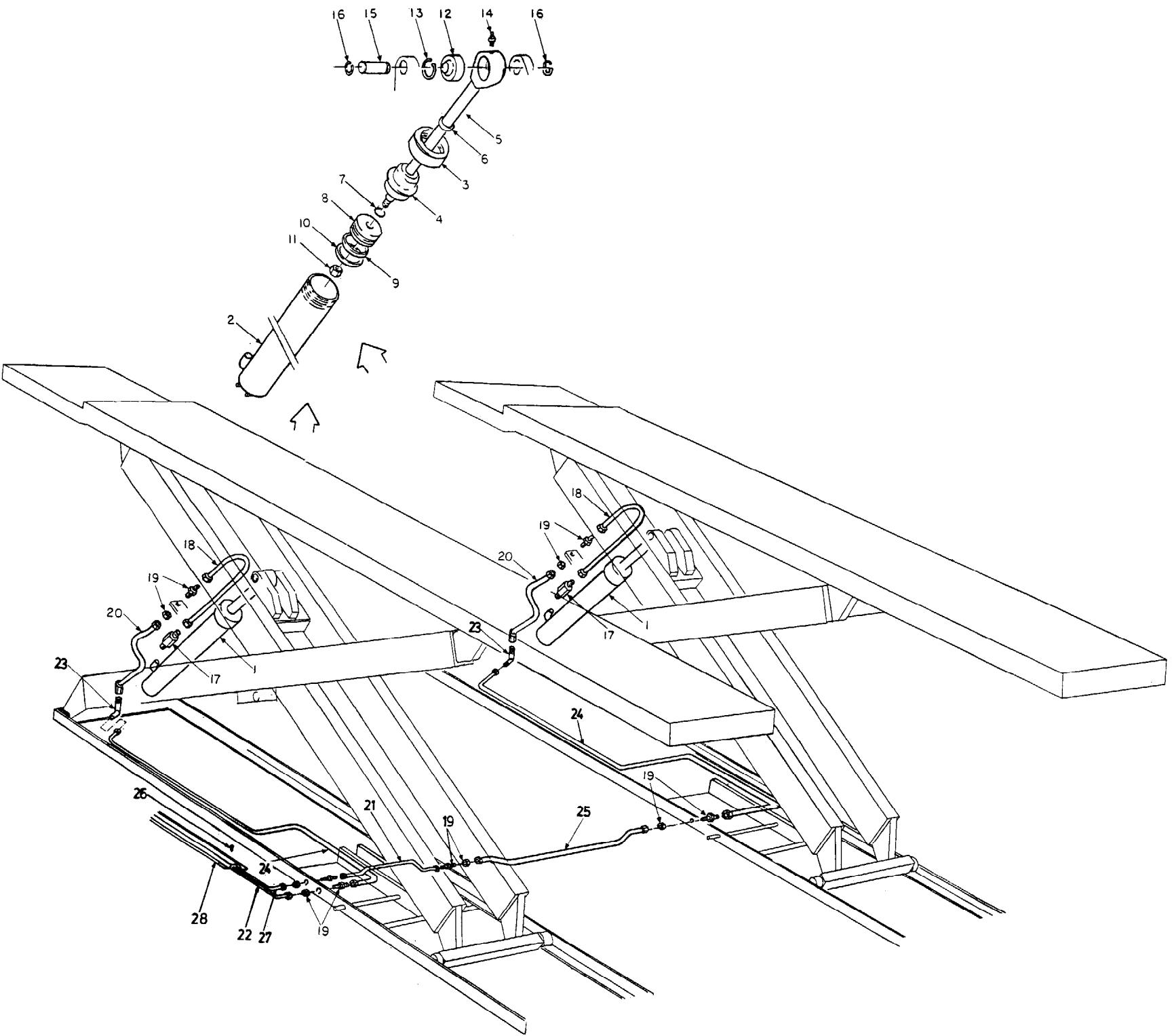
16

ASSEMBLY

PART LIST

ITEM	QTY.	DESCRIPTION	PART #
1	1	BASE FRAME WELDMENT, LEFT SIDE	4-0112
2	1	BASE FRAME WELDMENT, RIGHT SIDE	4-0113
3	2	SCISSOR WELDMENT	4-0002
4	1	ALIGNMENT DECK, LEFT SIDE (144"W/B)	4-0379
	1	ALIGNMENT DECK, LEFT SIDE (172"W/B)	4-0415
5	1	ALIGNMENT DECK, RIGHT SIDE (144"W/B)	4-0380
	1	ALIGNMENT DECK, RIGHT SIDE (172"W/B)	4-0416
6	2	APPROACH RAMP	3-0285
7	2	RAMP PIN	1-0095
8	2	FRONT WHEEL STOP	2-0851
9	6	HEX BOLT, 1/2" - 13UNC X 1 1/2"LG.	6-0291
10	18	HEX NUT, 1/2" - 13UNC	6-0035
11	6	LOCK WASHER, 1/2" I.D.	6-0059
12	2	51/64" I.D. X 1" O.D. X 1/8" THK. FLAT WASHER	6-0808
13	2	SHIPPING BRACKET	2-0112
14	2	FLAT SHIPPING BRACKET	2-0266
15	4	SPRING PIN, 3/16" X 2" LG.	6-0146
16	1	SAFETY RELEASE CONNECTING ROD	2-0071
17	4	FULCRUM PIN, 1 1/4" DIA.	1-0106
18	8	BUSHING, 1" I.D.	6-0085
19	8	END HINGE PIN, 1" DIA.	1-0107
20	4	CAM FOLLOWER	6-0637
21	4	JAM NUT, 5/8" - 18UNF	6-0040
22	2	SAFETY BAR WELDMENT	2-0405
23	2	SAFETY PIN	1-0547
24	1	SAFETY RELEASE ROD	2-0069
25	2	SAFETY RELEASE TAB	1-0189
26	1	SAFETY RELEASE ROD (AIR SAFETY)	2-0985
27	2	HEX BOLT, 1/4" - 20UNC X 1 1/4" LG.	6-0027
28	12	LOCK WASHER, 1/4" I.D.	6-0056
29	2	HEX NUT, 1/4" - 20UNC	6-0032
30	1	CENTER COVER	3-0365
31	4	GREASE NIPPLE	6-0000
32	4	CAM FOLLOWER	6-0077
33	2	PULL OUT STEP ASSEMBLY	2-0362
34	1	SHOULDER BOLT, 3/8" DIA. X 1" LG.	6-0206
35	2	SAFETY WALK TAPE	1-0749
36	24	PLAIN WASHER, 1/2" I.D.	6-0063
37	4	FLATWASHER, 1/4" I.D.	6-0060
40	10	HEX BOLT, 1/4" - 20UNC X 3/4" LG.	6-0178
41	4	WASHER	1-0140
42	14	COTTER PIN, 1/8" X 2" LG.	6-0115
43	4	BUSHING, 1 1/4" I.D.	6-0084
44	12	WEDGE ANCHOR, 1/2" X 4 1/2" LG.	6-0140
45	1	ORIFICE (0.025")	1-0804
46	1	ELBOW 90°, 1/8" NPT TO 1/4" POLYTUBE	6-0709

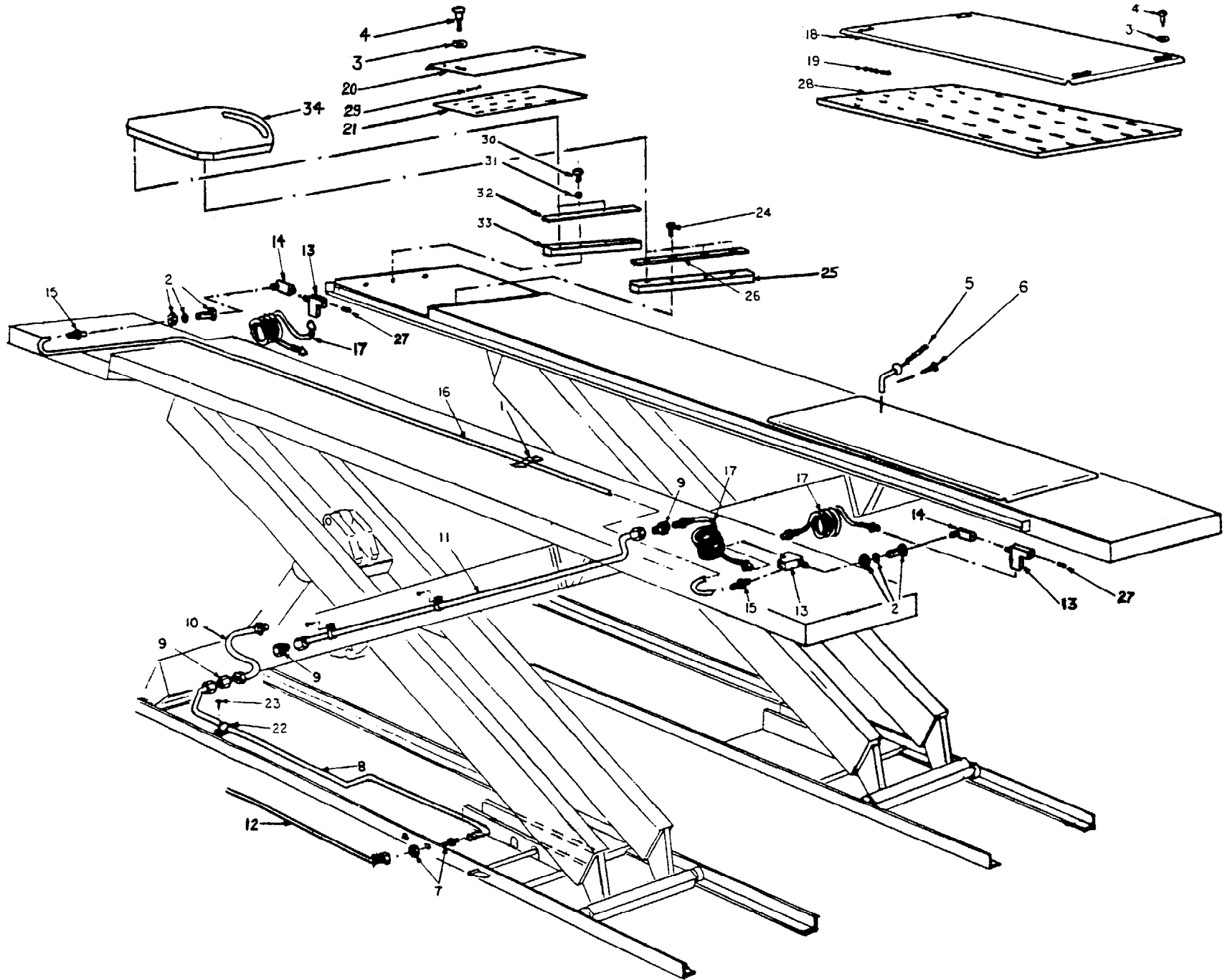
ITEM	QTY.	DESCRIPTION	PART #
47	1	AIR CYLINDER	6-1232
48	1	SHOULDER BOLT, 5/16" DIA. X 1" LG.	6-0246
49	1	ROD END WELDMENT	1-1245
50	1	ACTUATOR ARM WELDMENT	1-1246
51	1	SAFETY COVER	2-1055
52	2	SELF TAPPING SCREW, #10-24UNC X 1/2" LG.	6-0505
53	1	POLYTUBE, 1/4" DIA. (30' LG)	6-1270
54	1	"HYDRAULIC LEVELING" DECAL	6-1405



HYDRAULICS PART LIST

ITEM	QTY.	DESCRIPTION	PART #
1	2	HYDRAULIC CYLINDER	3-0000
1-2	1	TUBE WELDMENT	2-0000
1-3	1	NUT GLAND	1-0011
1-4	1	GLAND	1-0008
1-5	1	ROD WELDMENT	2-0001
1-6*	1	WIPER RING	6-0001
1-7*	1	'O' RING	6-0002
1-8	1	PISTON	1-0007
1-9*	1	SEAL RING	6-0003
1-10*	1	WEAR RING	6-0004
1-11	1	NYLON INSERT LOCK NUT, 7/8"-14UNF	6-0005
1-12	1	BEARING	6-0007
1-13	1	RETAINING RING	6-0070
1-14	1	GREASE NIPPLE	6-0000
15	2	PIN	1-0029
16	4	RETAINING RING	6-0340
17	2	VELOCITY FUSE	6-0025
18	2	TUBE ASSEMBLY, CYLINDER	1-0093
19	6	BULKHEAD, CONNECTOR 3/8"JIC C/W JAM NUT	6-0013
20	2	HOSE ASSEMBLY	2-0624
21	1	TUBE ASSEMBLY	2-0848
22	1	HYDRAULIC HOSE ASSEMBLY (21')	2-1050
23	2	BULKHEAD, 90° ELBOW 3/8"JIC M C/W JAM NUT	6-0012
24	2	TUBE ASSEMBLY	2-0849
25	1	TUBE ASSEMBLY	2-0065
26	20	CONCRETE NAIL, 1/4" x 1"	6-0141
27	1	HYDRAULIC HOSE ASSEMBLY (21')	2-1049
28	5	LINE COVER	2-1104

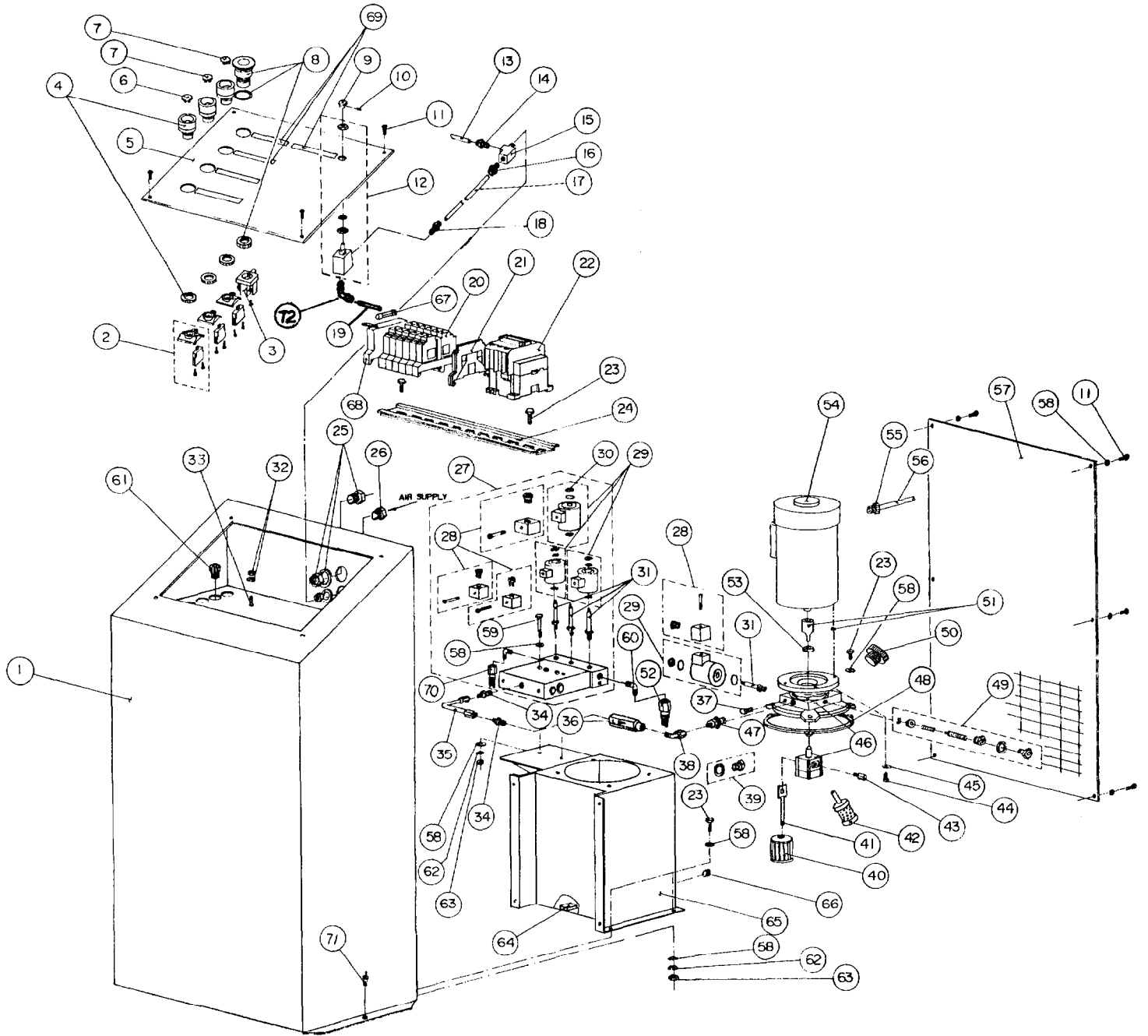
*HYDRAULIC CYLINDER SEAL KIT PART # 0-0007



OPTIONS PART LIST

ITEM	QTY.	DESCRIPTION	PART #
1	5	FRAME CLIP	6-0500
2	2	TERMINAL BOLT, 3/4"-16m W/1/4 NPT F	6-0167
3	12	FLAT WASHER	6-0426
4	12	SHOULDER BOLT, 3/8" X 5/8"LG.	6-0069
5	8	LOCKING PIN ASSEMBLY	2-0637
6	8	SELF TAP SCREW #10 X 1/2"LG.	6-0505
7	1	BULKHEAD, CONNECTOR 3/8"JIC C/W JAM NUT	6-0013
8	1	TUBE ASSEMBLY	3-0017
9	3	ADAPTER, 3/8"JIC M TO 1/4"NPT F	6-0118
10	1	HOSE ASSEMBLY	1-0119
11	1	TUBE ASSEMBLY	2-0062
12	1	3/8"DIA. PVC BRAIDED HOSE, 22'LG. (C/W FITTINGS)	6-1345
13	3	STREET TEE 1/4"NPT	6-0014
14	2	STREET ELBOW	6-0015
15	2	POLYTUBE STRAIGHT ADAPTER, 3/8" X 1/4"NPT	6-0710
16	1	HOSE 144"W/B	1-0120
17	3	12' COILED HOSE	6-0337
18	2	REAR SLIP PLATE WELDMENT	3-0197
19	1 SET (225)	BALL BEARING, 1/4"DIA.	6-0829
20	2	FRONT POSITIONING PLATE WELDMENT	2-0841
21	2	FRONT BEARING CAGE	1-1070
22	4	TUBE CLAMP	6-0170
23	4	SELF TAP SCREW, #10 X 3/8"LG.	6-0169
24	8	FLAT HEAD SCREW, 1/4"-20UNC X 1"LG.	6-1099
25	2	SPACER BAR	2-0843
26	2	RETAINING BAR	2-0844
27	2	PLUG, 1/4"NPT	6-0282
28	2	REAR BEARING CAGE	3-0196
29	1 SET (70)	BALL BEARING, 1/4" DIA.	6-0829
30	6	HEX HD. BOLT, 1/4"-20UNC X 1 1/4"LG.	6-0027
31	6	LOCKWASHER, 1/4" I.D.	6-0056
32	2	RETAINING BAR	2-0635
33	2	SPACER BAR	2-0636
34	2	WHEELTRON TURNPLATE	4-0375

CONSOLE



CONSOLE PART LIST

ITEM	QTY.	DESCRIPTION	PART #
1	1	CONSOLE WELDMENT	4-0356
2	3	PUSHBUTTON CONTACTS	6-1248
3	1	EMERGENCY PUSHBUTTON CONTACTS	6-1250
4	3	PUSHBUTTON	6-1247
5	1	TOP COVER	2-0962
6	1	PUSHBUTTON PLATE (SYNCHRONIZATION)	6-1252
7	2	PUSHBUTTON PLATE (UP/DOWN ARROW)	6-1251
8	1	EMERGENCY STOP PUSHBUTTON W/ RESET	6-1249
9	1	BUTTON	6-1052
10	1	SOCKET HD. SET SCREW	6-1051
11	10	BUTTON HD. SOCKET CAP SCREW, 1/4"-28UNF X 3/8"LG.	6-0441
12	1	AIR VALVE ASS'Y	6-1055
13	1	3/8"DIA. PVC BRAIDED HOSE. 22'LG. (C/W FITTINGS)	6-1345
14	1	ADAPTER, 3/8" PUSHLOCK TO 1/4"NPT M	6-0121
15	1	TEE, 1/4"NPT M TO 1/4"NPT F TO 1/4"NPT F	6-0014
16	1	ADAPTER, 1/4"DIA. POLYTUBE TO 1/4"NPT M	6-1347
17	1	1/4" POLYTUBE, 12"LG.	6-1343
18	1	ADAPTER, 1/4"DIA. POLYTUBE TO 1/8"NPT M	6-0708
19	1	1/4" POLYTUBE, 30'LG. (C/W FITTINGS)	6-1270
20	1	TERMINAL BLOCK	6-1241
21	1	GROUND BLOCK	6-1255
22	1	CONTACTOR	6-1258
23	10	HEX HD. BOLT, 1/4"-20UNC X 1"LG.	6-0901
24	1	TERMINAL BAR RAIL	6-1253
25	1	STRAIN RELIEF, LARGE	6-0094
26	1	BULKHEAD, 1/4"NPT	6-0713
27	1	FLOW DIVIDER W/SOLENOIDS	6-1259
28	4	SOLENOID ELECTRICAL PLUG	6-0091
29	4	SOLENOID	6-1365
30	4	CAP NUT FOR SOLENOID	6-0432
31	4	SOLENOID VALVE SPOOL	6-0101
32	2	NUT #10-24UNC	6-1346
33	1	BOLT #10-24UNC X 1/2"LG.	6-0815
34	2	ADAPTER, 3/8"NPT M TO 3/8"JIC M	6-0011
35	1	TUBE ELBOW	1-0102
36	1	FLOW CONTROL	6-0090
37	1	PLUG	6-0089
38	1	90° ELBOW, 3/8"JIC F TO 3/8"NPT M	6-1294
39	1	OIL LEVEL SIGHT PLUG	6-0517
40	1	STRAINER	6-0434
41	1	FLANGE & PIPE FOR STRAINER	6-0428
42	1	OIL FILTER	6-0097
43	1	PRESSURE TIME DELAY VALVE	6-0144
44	4	HEX HD. BOLT, 3/8"-16UNC X 1"LG.	6-0067
45	4	LOCKWASHER, 3/8" I.D.	6-0058
46	1	PUMP ASS'Y (WITH PUMP, BLOCK, FRINGE)	6-0433

ITEM	QTY.	DESCRIPTION	PART #
47	1	ADAPTER, 14mm "O" RING TO 3/8" JIC M	6-0020
48	1	RUBBER GASKET	1-0225
49	1	PRESSURE RELIEF VALVE	6-0431
50	1	FILLER CAP	6-0099
51	1	SHAFT ADAPTER W/SETSCREW	6-0429
52	1	HYDRAULIC HOSE ASSEMBLY	2-1050
53	1	COUPLING	6-0430
54	1	MOTOR, 220V/1PH	6-0087
55	1	STRAIN RELIEF, MEDIUM	6-0093
56	1	MOTOR CABLE	1-0104
57	1	ACCESS COVER	3-0497
58	22	FLATWASHER, 1/4" I.D.	6-0060
59	2	HEX HD. BOLT, 1/4"-20UNC X 2 3/4" LG.	6-0648
60	2	ELBOW 90°, 1/4" NPT M TO 3/8" JIC M	6-0274
61	5	STRAIN RELIEF, 3/8"	6-0093
62	8	LOCKWASHER, 1/4" I.D.	6-0056
63	8	HEX NUT, 1/4"-20UNC	6-0032
64	1	MAGNET	6-0405
65	1	OIL RESERVOIR	4-0146
66	1	PLUG, 3/8" NPT	6-0102
67	1	FUSE, 250V/1PH.	6-1243
68	1	TERMINAL FUSE HOLDER	6-1242
69	1	DECAL SET	6-1344
70	1	HYDRAULIC HOSE ASSEMBLY	2-1049
71	2	CONCRETE NAIL, 1/4" X 1" LG.	6-0141
72	1	1/4" POLYTUBE TO 1/8" NPT 90° ELBOW ADAPTER	6-0709