

# MOHAWK

MADE IN THE USA



## MODEL FPOB-SERIES

**4-POST RUNWAY LIFTS (OPEN BEAM)  
10,000 LB - 12,000 LB - 14,000 LB CAPACITY  
VEHICLE LIFT MANUAL**

**THANK YOU  
FOR SENDING IN YOUR  
WARRANTY REGISTRATION  
CARD**

**MOHAWK SERVICE  
DEPARTMENT**

- ☒ INSTALLATION
- ☒ OPERATION
- ☒ MAINTENANCE
- ☒ PARTS

### **MOHAWK RESOURCES LTD.**

65 VROOMAN AVE.

AMSTERDAM, NY 12010

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FPOB-SERIES.doc  
Rev Date 4/29/2002  
Part #601-800-XXX

## IMPORTANT SAFETY INSTRUCTIONS

When using your garage equipment, basic safety precautions should always be followed, including the following:

1. Read all instructions. Before assembling unit, become familiar with part names and have a good understanding of how this unit is to be assembled and of how individual parts operate.
2. Care must be taken as burns can occur from touching hot parts.
3. Do not operate equipment with a damaged cord or if the equipment has been dropped or damaged - until it has been examined by a qualified serviceman.
3. Do not let cord or hoses come in contact with hot manifolds or moving fan blades.
4. If an extension cord is necessary, a cord with a current rating equal to or more than that of the equipment should be used. Cords rated for less current than the equipment may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
5. Always unplug equipment from electrical outlet when not in use. Never use the cord to pull the plug from the outlet. Grasp plug and pull to disconnect
6. To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids (gasoline).



**Risk of Explosion:** This equipment has internal arcing and sparking parts which should not be exposed to flammable vapors. This equipment is only suitable for installation in a garage having sufficient air circulation to be considered a non-hazardous location.

7. Adequate ventilation should be provided when working on operating internal combustion engines.
8. Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
9. To reduce the risk of electric shock, do not use on wet surfaces or expose to rain.
10. Use only as described in this manual. Use only manufacturer's recommended attachments.
11. ALWAYS WEAR SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.

**SAVE THESE INSTRUCTIONS**

## HAVE A QUESTION?

**Call your local  
Mohawk distributor  
For parts, service and technical support.**

Distributor Place Card Here

Please have this unit's model and serial number when calling for service.

Model Number \_\_\_\_\_

Serial Number \_\_\_\_\_

**OR CONTACT:**

**MOHAWK RESOURCES LTD.**

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E-Mail: [Service@MOHAWKLIFTS.com](mailto:Service@MOHAWKLIFTS.com)

**MOHAWK WARRANTIES**

EFFECTIVE DATE: 1/1/2002

**GENERAL WARRANTY INFORMATION:**

MOHAWK'S OBLIGATION UNDER THIS WARRANTY IS LIMITED TO REPAIRING OR REPLACING ANY PART OR PARTS RETURNED TO THIS FACTORY, TRANSPORTATION CHARGES PREPAID, WHICH PROVE UPON INSPECTION TO BE DEFECTIVE AND WHICH HAVE NOT BEEN MISUSED. DAMAGE OR FAILURE TO ANY PART DUE TO FREIGHT DAMAGE OR FAULTY MAINTENANCE IS NOT COVERED UNDER THIS WARRANTY. MOHAWK RESERVES THE RIGHT TO DECLINE RESPONSIBILITY WHEN REPAIRS HAVE BEEN MADE OR ATTEMPTED BY OTHERS. THIS WARRANTY DOES NOT COVER DOWNTIME EXPENSES INCURRED WHEN UNIT IS IN REPAIR. THE MODEL NAME AND SERIAL NUMBER OF THE EQUIPMENT MUST BE FURNISHED WITH ALL WARRANTY CLAIMS. THIS WARRANTY STATEMENT CONTAINS THE ENTIRE AGREEMENT BETWEEN MOHAWK RESOURCES LTD. AND THE PURCHASER UNLESS OTHERWISE SPECIFICALLY EXPRESSED IN WRITING. THIS NON-TRANSFERABLE WARRANTY APPLIES TO THE ORIGINAL PURCHASER ONLY. THIS WARRANTY IS APPLICABLE TO UNITS LOCATED ONLY IN THE UNITED STATES OF AMERICA AND CANADA. CONTACT MOHAWK RESOURCES LTD. FOR SPECIFIC WARRANTY PROVISIONS FOR UNITS LOCATED OUTSIDE OF THESE COUNTRIES.

**5-YEAR WARRANTY:**

THIS WARRANTY IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: A-7, SYSTEM I, LMF-12, TP-15, TP-18, TP-20, TP-26, TP-30 AND STANDARD OPTIONS.

**3-YEAR WARRANTY:**

THIS WARRANTY IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: TSL-7, PL-6000, TR-19, TR-25, FL-25, TR-33, TR-35, TR-40, TR-50, TR-60, TR-75, TR-110, MP-SERIES AND RP-SERIES MOBILE COLUMN LIFTS, SL-SERIES SCISSOR LIFTS, FP-SERIES LIGHT DUTY FOUR POST LIFTS, TL-SERIES LIFTS AND STANDARD OPTIONS.

**2-YEAR WARRANTY:**

THIS WARRANTY IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: USL-6000 AND STANDARD OPTIONS.

**1-YEAR WARRANTY:**

THIS WARRANTY IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: HR-6, TOMAHAWK, TD-1000, CT-1000 AND STANDARD OPTIONS.

**STRUCTURAL COMPONENTS:**

ALL STRUCTURAL AND MECHANICAL COMPONENTS OF THIS UNIT ARE GUARANTEED FOR THE ABOVE STATED TIME FRAME, SPECIFIC TO MODEL, FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

SEE MOHAWK'S "EXTENDED LIFETIME CYLINDER WARRANTY" FOR SPECIFIC WARRANTY PROVISIONS FOR HYDRAULIC CYLINDERS. THE "EXTENDED LIFETIME CYLINDER WARRANTY" IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: A-7, SYSTEM I, LMF-12, TP-15, TP-18, TP-20, TP-26, TP-30, MP-SERIES AND TL-SERIES LIFTS.

**POWER UNIT:**

ALL POWER UNIT COMPONENTS (MOTOR, PUMP AND RESERVOIR) ARE GUARANTEED FOR THE ABOVE STATED TIME FRAME, SPECIFIC TO MODEL, FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

**ELECTRICAL COMPONENTS:**

ALL ELECTRICAL COMPONENTS (EXCLUDING MOTOR) ARE GUARANTEED FOR ONE YEAR FOR PARTS ONLY (EXCLUDING LABOR), FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

**PNEUMATIC (AIR) COMPONENTS:**

ALL PNEUMATIC (AIR) COMPONENTS (I.E. AIR CYLINDERS AND POPPET AIR VALVES) ARE GUARANTEED FOR ONE YEAR FOR PARTS ONLY (EXCLUDING LABOR), FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

**WARRANTY EXCEPTIONS:**

ALL "SPECIAL" LIFTS AND/OR "CUSTOMIZED" OPTIONS ON THIS UNIT ARE GUARANTEED FOR ONE YEAR FOR PARTS ONLY (EXCLUDING LABOR), FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

THIS WARRANTY SUPERSEDES ALL OTHER WARRANTY POLICIES PREVIOUSLY STATED AND IN ALL OTHER MOHAWK PRODUCT SPECIFIC LITERATURE.

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# MODEL NUMBER CREATION (FILL IN ALL THE BLANKS)

FP \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

CHOOSE ONE	<u>SUPPORT BEAM OPTIONS</u>	
	Closed Front Beam	-
	Open Front Beam	OB

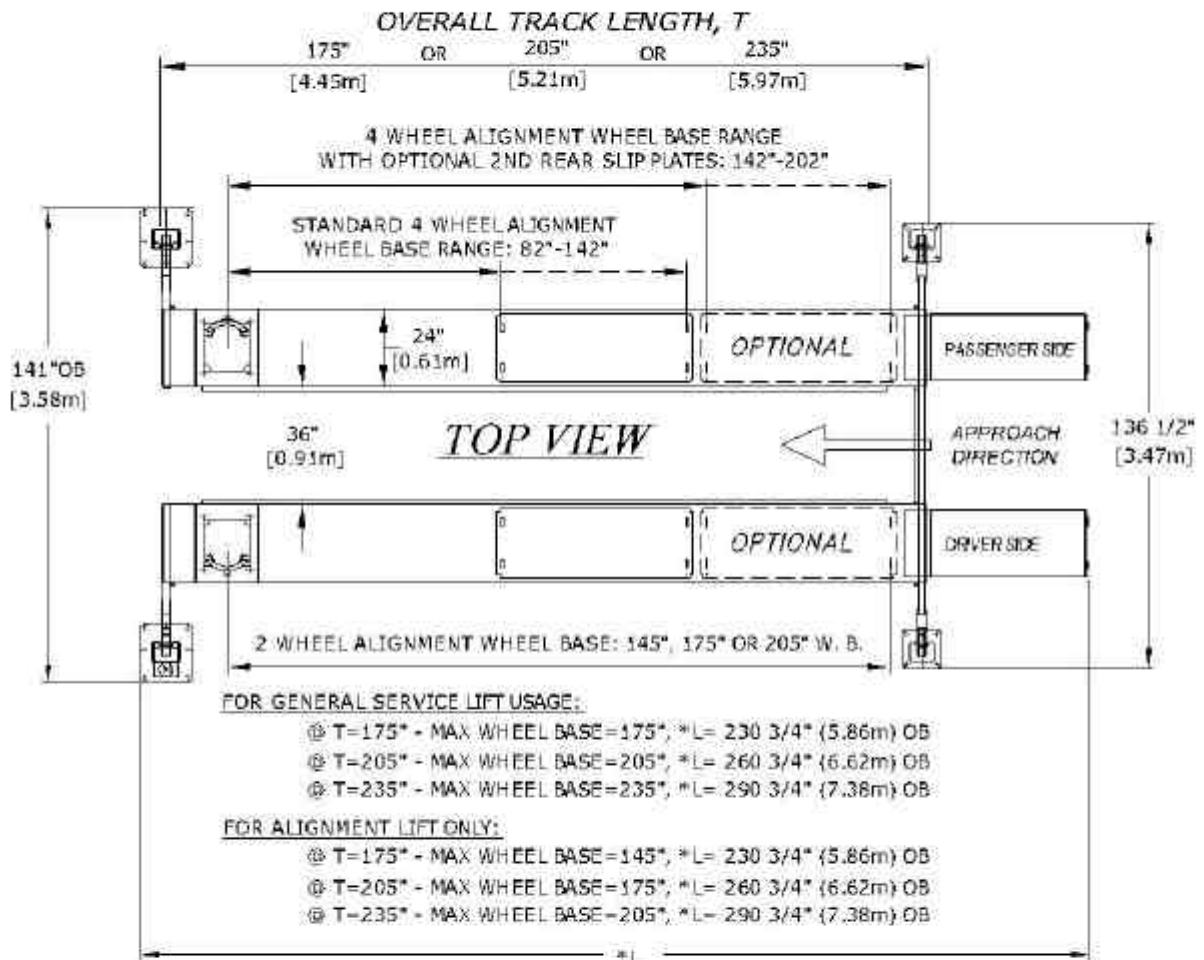
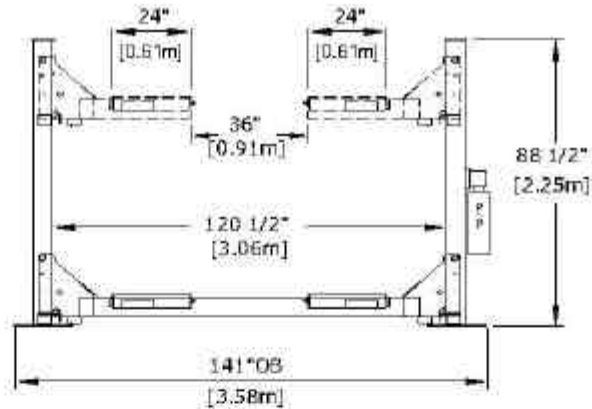
CHOOSE ONE	<u>CAPACITY</u>	
	10,000 lb Capacity	10
	12,000 lb Capacity	12
	14,000 lb Capacity	14

CHOOSE ONE	<u>OVERALL TRACK LENGTH, T</u>	
	T = 175"	175
	T = 205"	205
	T = 235"	235

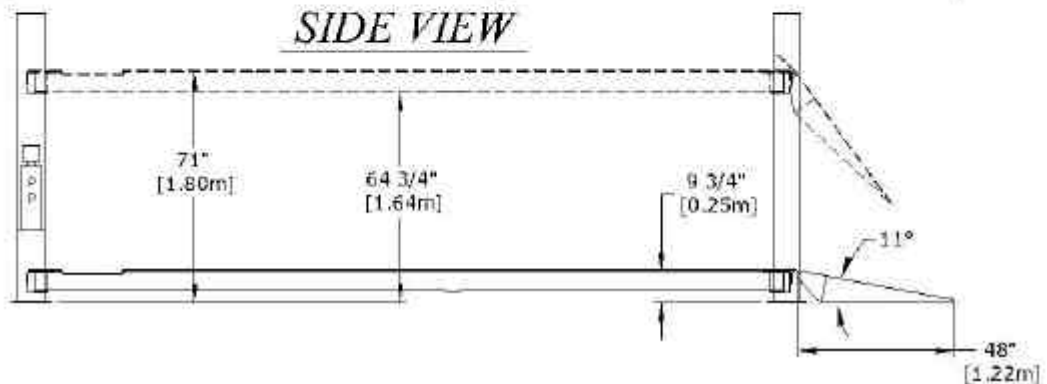
CHOOSE ONE	<u>ALIGNMENT OPTIONS</u>	
	None	-
	With Turntable Cutouts & Slip-Plates Only	A
	With Alignment Package *	AP
	* Includes: Turntable Cutouts, Turntables, Slip-Plates & Two (2) Rolling Jacks Each Rated 1/2 Lift Capacity	

# OPEN BEAM 4-POST OVERALL DIMENSIONS

*FRONT VIEW*



*SIDE VIEW*



**1. SPECIFICATIONS FOR 4-POST OPEN BEAM LIFTS:**

MAXIMUM CAPACITY:	DEPENDANT ON MODEL 10,000 LB or 12,000 LB or 14,000 LB
DIMENSIONAL SPECS:	SEE SPEC DRAWING
DOWN POSITION HEIGHT:	9.5"
MAXIMUM LIFTING HEIGHT:	71"
POWER REQUIREMENTS (STD):	230 VAC, 1 PHASE, 20 AMP, 60 HZ

**2. TOOLS REQUIRED FOR INSTALLATION:**

ROTARY HAMMER DRILL
¾" CONCRETE DRILL BIT
SOCKET FOR TIGHTENING BIT
4' LEVEL
HAMMER (FOR ANCHOR INSTALLATION)
PRY BAR (FOR SHIM INSTALLATION)
CHALK LINE (FOR LIFT LOCATION LAYOUT)
FISH LINE (MECHANICS WIRE TO FEED CABLES THRU MEMBERS)
TAPE MEASURE
ELECTRICAL TAPE
BAR (4' LONG)
WORK STANDS – SET OF 4 (FOR SETUP)
STANDARD SOCKETS AND WRENCHES

**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. Concrete must have a minimum strength of 4000 psi and should be aged twenty-eight (28) days prior to installation. Please consult the architect, contractor or engineer if doubt exists as to the condition of the existing floor.

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 the electrical power from the lift for any servicing requirements.



### 3. PACKING LIST

The lift is packaged to protect from any damage that may occur in shipping. The two deck assemblies and crossmembers are packaged together with the accessory boxes strapped to them.

#### **Main Structural Components:**

- 1 – Left Side Deck Assembly (complete with hydraulic cylinder)
- 1 – Right Side Deck Assembly
- 2 – Front Crossmember Assembly (with air cylinder lock release and sheaves)
- 1 – Rear Crossmember Assembly (with air cylinder lock release and sheaves)

#### **Accessory Box Components:**

##### **Box 1 Contents:**

- 1 – Power Post (with safety ladder)
- 3 – Post (with safety ladder)

##### **Box 2 Contents:**

- 1 – Power Pack Assembly complete with Flow Control
- 2 – Approach Ramps
- 1 – Set of Cables (set contains 4 cables with nuts and spacers)
- 2 – Front Wheel Stops
- 1 – Ramp Pin
- 1 – Air Kit (with 1/4" and 3/8" polytube and fittings)
- 1 – Hydraulic Hose (with fittings)
- 1 – Hose Guard
- 4 – Sheave Covers
- 3 – Cable Ties (for attachment of hydraulic hose to cylinder)
- 2 – Recoiled Air Hoses 12' Long
- 1 – Coupler 1/4" NPT
- 1 – Package of Hardware (with its own packing list)
- 1 – Owner's manual

## 4. INSTALLATION INSTRUCTIONS:

PLEASE TAKE THE TIME TO READ THESE INSTRUCTIONS COMPLETELY! A QUICK CHECK OF THE CONTENTS OF THE ACCESSORY BOX WOULD DECREASE THE OVERALL TIME OF INSTALLATION.

- Gather the tools and materials required for the installation
- Select the location best suited for your lift

### CHECK LIFTING AREA FOR THE FOLLOWING:

- Ease of driving a vehicle on and off the lift
- Overhead obstructions, low ceiling height, overhead doors, overhead heaters, etc..
- Floor obstructions, uneven floor in lift area, floor drains, work benches, electrical in floor, etc..
- Proper thickness and strength of concrete, no cracks, no seams, etc..
- Adequate walking clearance around lift

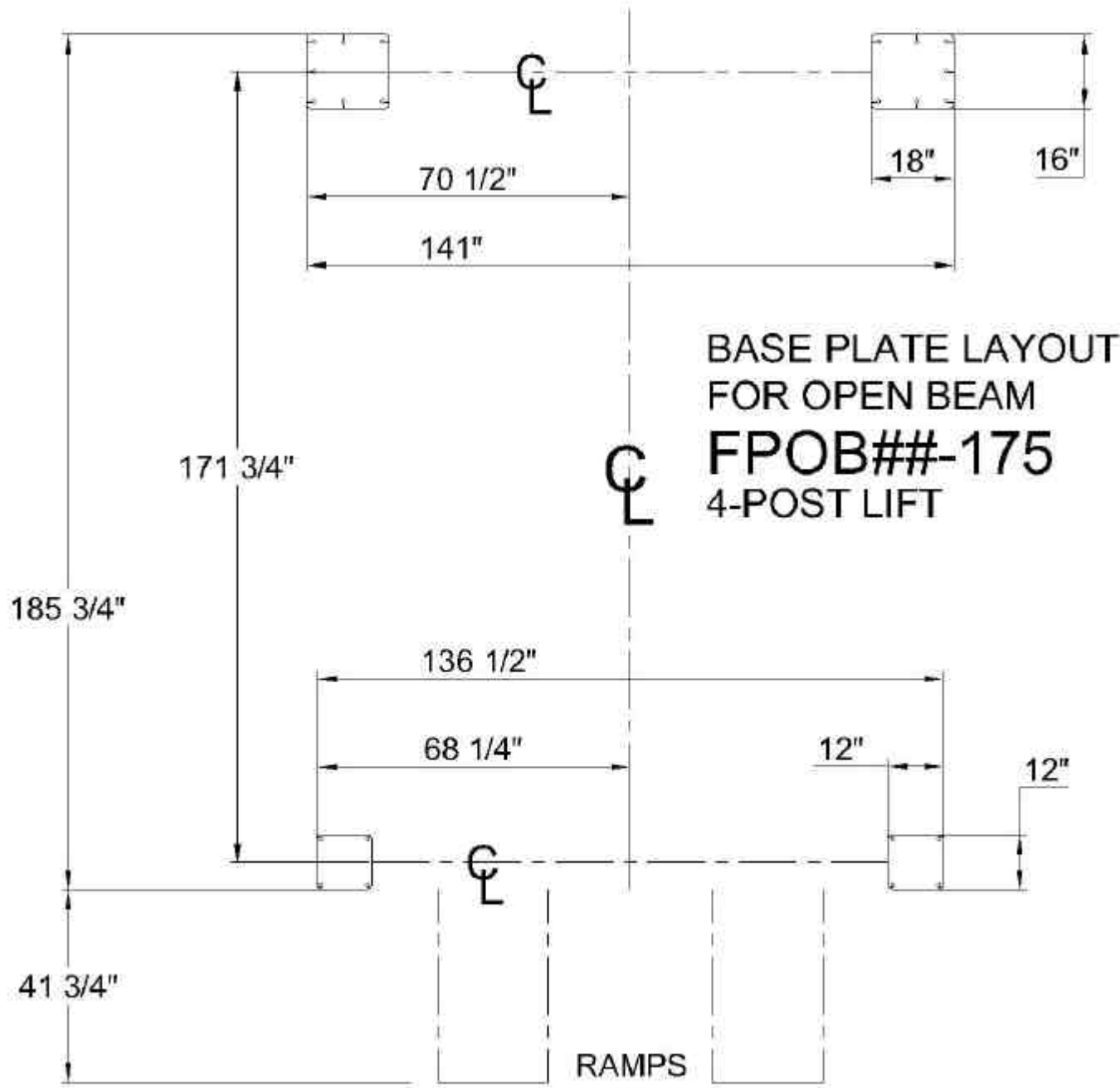
### 4.1 CHALK LINE LAYOUT

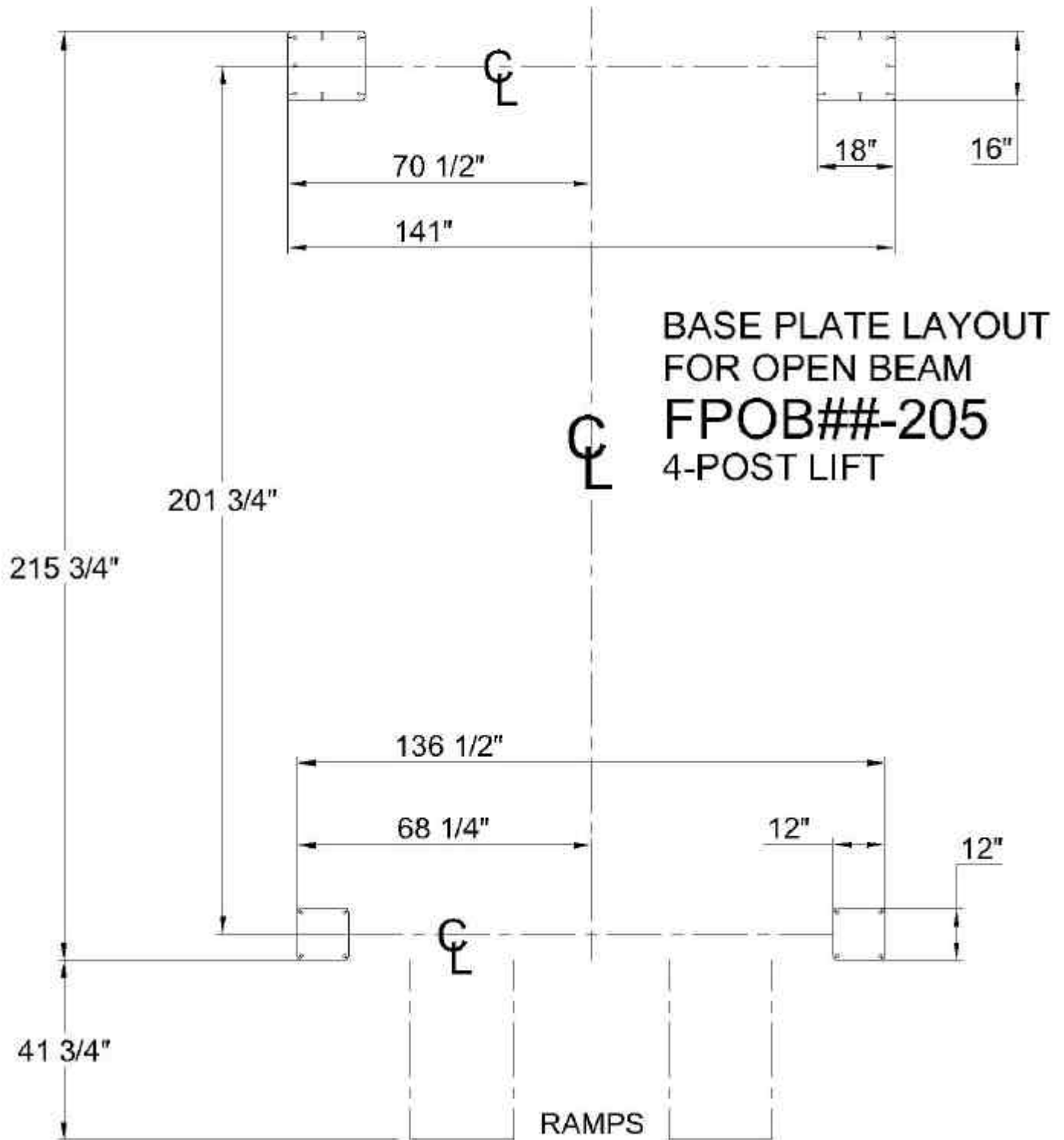
An outline matching the dimensions of the baseplates will need to be marked on the floor. **Refer the the enclosed base plate layout dimensions for the particular length model supplied. These lines are to be used for reference only.**

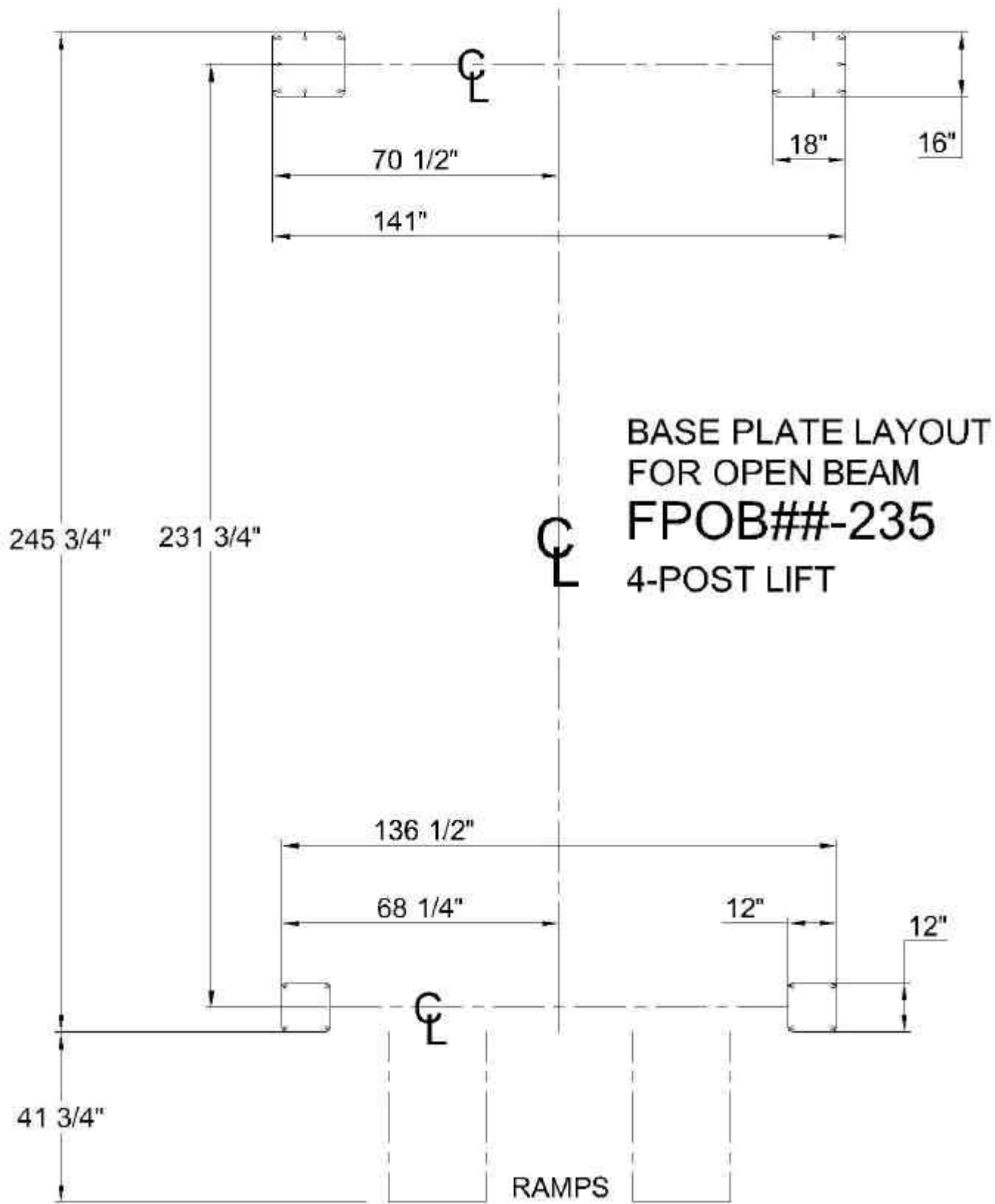
### IMPORTANT

**To determine the front, rear, left side and right side decks, check the following:**

- The left deck has the hydraulic cylinder mounted to its underside
- Position the decks on work stands.
- The front crossmember assemblies will have two (2) small openings for the cable routing. The openings will face the rear of the lift.
- The rear crossmember assembly will have one (1) small opening and one (1) larger opening for cable routing. These openings will face the front of the lift.
- The crossmember assemblies are fully assembled and the PULLEYS DO NOT NEED TO BE REMOVED FOR CABLE INSTALLATION. ALIGN CROSSMEMBER ASSEMBLIES SO THAT THE DIAGONALS MEASURE WITHIN ½" SQUARE.
- Install the crossmember assemblies under the front and rear of each deck assembly. The decks will fit inside the locating tabs of the crossmember assemblies. Install eight (8) ½-13 UNC x 1" Lg set screws to hold the decks to the crossmember assemblies. One set screw to the front and rear of each deck and one set screw into the four outer locating tabs on the front and rear crossmember assemblies.
- Reposition work stands under front and rear crossmember assemblies.





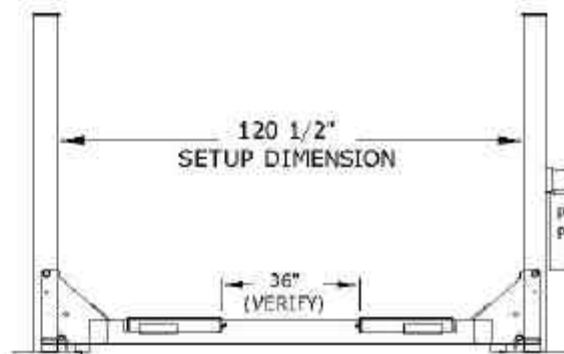


## **IMPORTANT INSTALLATION INFORMATION:**

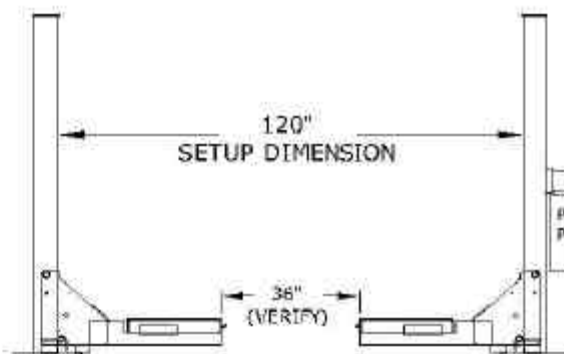
*THE DIMENSIONAL DRAWINGS PROVIDED IN THIS MANUAL ARE FOR ILLUSTRATIVE PURPOSES ONLY ARE NOT TO BE USED FOR INSTALLATION. FOR PROPER INSTALLATION, FOLLOW THE FOLLOWING STEPS:*

- 1. LAYOUT FLOOR FOR APPROXIMATE LOCATION OF RAMP END OF LIFT.*
- 2. ERECT REAR POSTS AND CLOSED BEAM USING DIMENSIONS SHOWN IN FIG 1.*
- 3. SET TRACKS ON CLOSED CROSSRAILS.*
- 4. ERECT FRONT POSTS AND OPEN CROSS BEAMS USING DIMENSIONS SHOWN IN FIG 2.*
- 5. PLACE TRACKS OVER OPEN CROSSRAILS, VERIFYING PROPER FIT.*
- 6. VERIFY EQUAL INSIDE TRACK DIMENSION AT FRONT AND REAR OF LIFT.*
- 7. VERIFY PROPER FIT OF ALL COMPONENTS.*
- 8. ANCHOR LIFT TO FLOOR.*

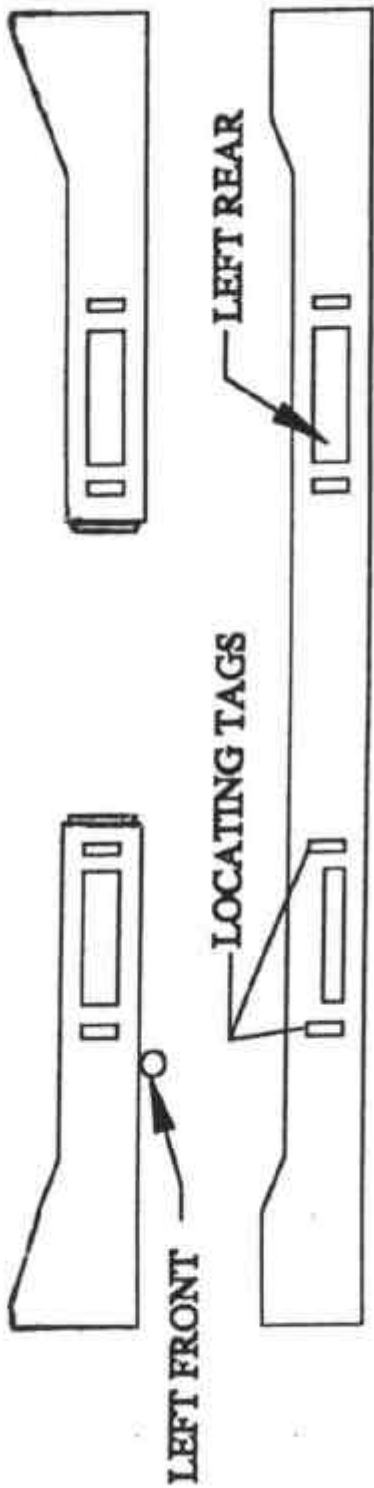
**FIG 1: SETUP DIMENSIONS FOR CLOSED BEAM END OF LIFT:**



**FIG 2: SETUP DIMENSIONS FOR OPEN BEAM END OF LIFT:**

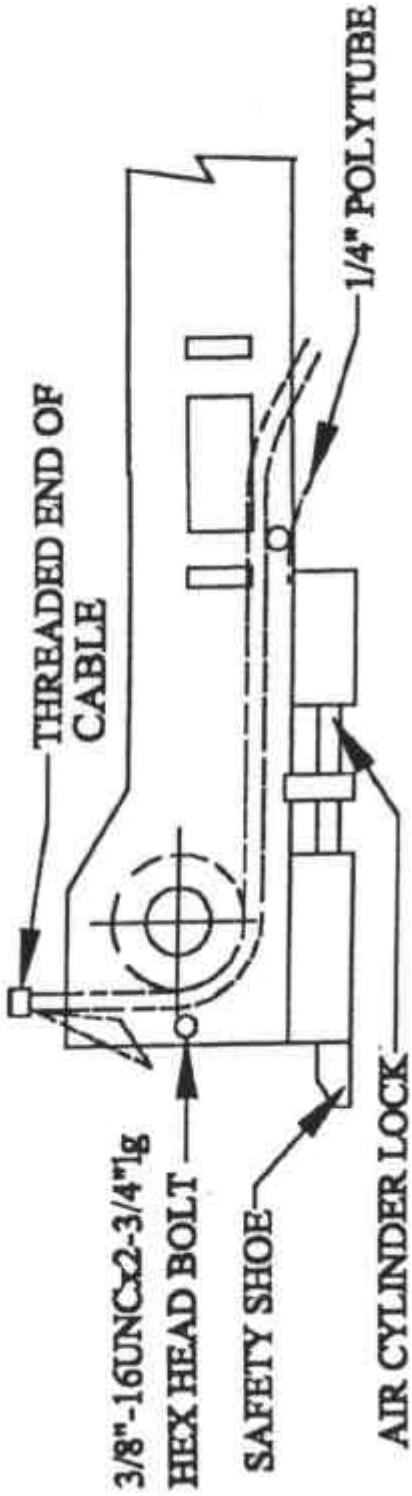


**4.2. FRONT AND REAR CROSSMEMBER ASSEMBLY**



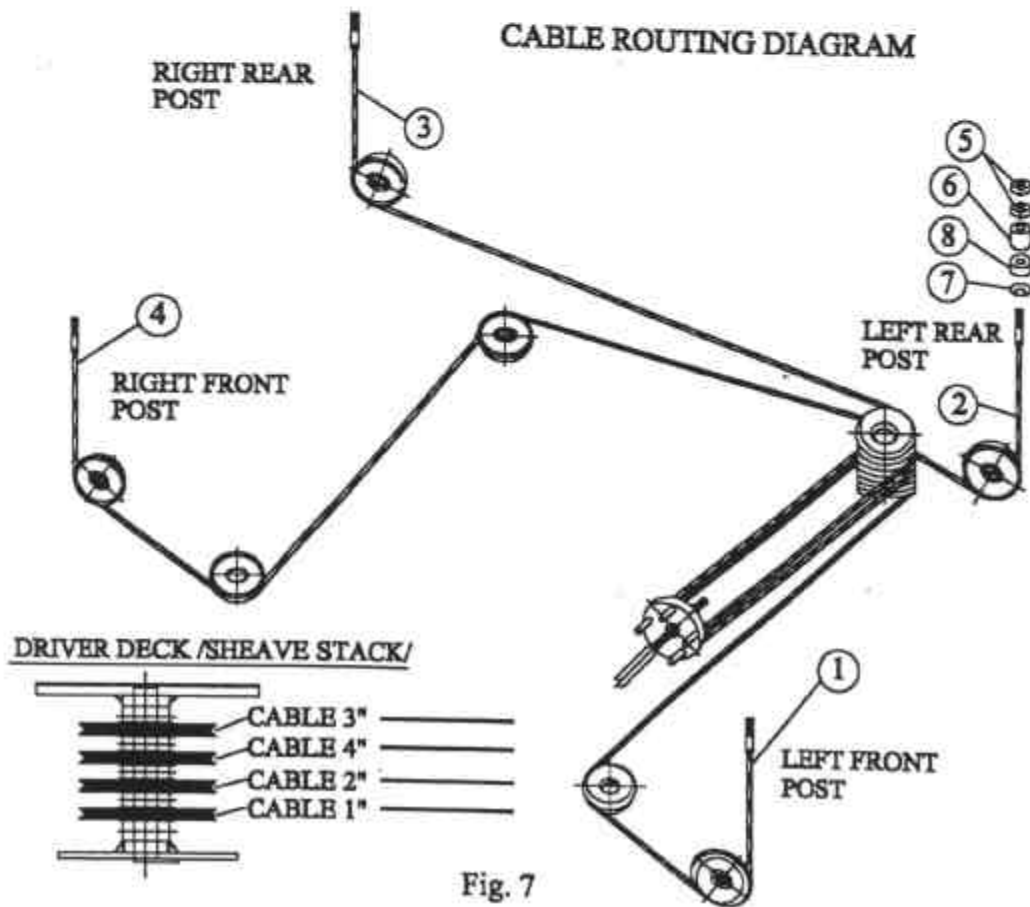
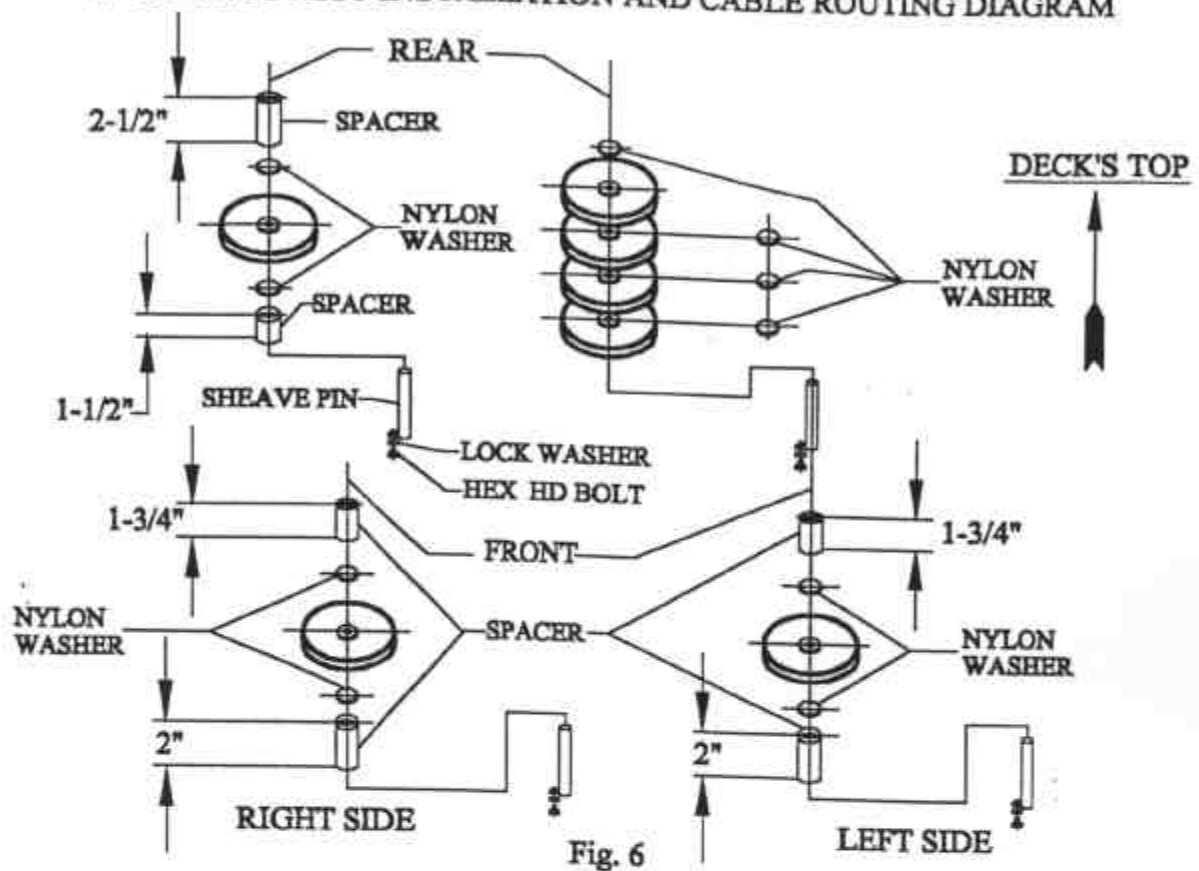
**Fig. 4**

**CABLE AND ROUTING OF CROSSMEMBER ASSEMBLIES**



**Fig. 5**

### 4.3 SHEAVES ASSY INSTALLATION AND CABLE ROUTING DIAGRAM





**CABLE ROUTING PARTS LIST****FOR MODELS FPOB##-235**

ITEM	QTY	DESCRIPTION	PART #
1	1	Cable Assy, 436" Lg (Left Front)	XXXX
2	1	Cable Assy, 212" Lg (Left Rear)	XXXX
3	1	Cable Assy, 264" Lg (Right Rear)	XXXX
4	1	Cable Assy, 488" Lg (Right Front)	XXXX
5	8	Hex Nut, 7/8-14 UNF, Grd 8	6-0087
6	4	Cable Spacer, 2" Lg	1-0172
7	4	Flat Washer, 7/8 ID	6-0088
8	4	Cable Spacer, ¾" Lg	1-0173

**FOR MODELS FPOB##-205**

ITEM	QTY	DESCRIPTION	PART #
1	1	Cable Assy, 376" Lg (Left Front)	1-0128
2	1	Cable Assy, 182" Lg (Left Rear)	1-0129
3	1	Cable Assy, 234" Lg (Right Rear)	1-0130
4	1	Cable Assy, 428" Lg (Right Front)	1-0131
5	8	Hex Nut, 7/8-14 UNF, Grd 8	6-0087
6	4	Cable Spacer, 2" Lg	1-0172
7	4	Flat Washer, 7/8 ID	6-0088
8	4	Cable Spacer, ¾" Lg	1-0173

**FOR MODELS FPOB##-175**

ITEM	QTY	DESCRIPTION	PART #
1	1	Cable Assy, 319" Lg (Left Front)	1-0174
2	1	Cable Assy, 152" Lg (Left Rear)	1-0175
3	1	Cable Assy, 204" Lg (Right Rear)	1-0176
4	1	Cable Assy, 368" Lg (Right Front)	1-0177
5	8	Hex Nut, 7/8-14 UNF, Grd 8	6-0087
6	4	Cable Spacer, 2" Lg	1-0172
7	4	Flat Washer, 7/8 ID	6-0088
8	4	Cable Spacer, ¾" Lg	1-0173

**4.4 CABLE INSTALLATION**

- Locate cables and set out on the floor, check part number located on each stud of each cable.

**NOTE: The sheaves on the crossmember do not need to be removed for cable installation. Part #6-0063 (Hex Head Bolt, 3/8-16 UNC x 2 ¾ Lg) must be removed from crossmember to allow cable installation around sheaves. This bolt must be reinstalled after the cable is routed through the crossmember.**

- Before beginning cable routing, refer to Cable Routing Diagram (See Figure 7)
- Disassemble the sheaves from the decks, assembled in the factory in indicated direction and lay down on the floor.

- Route cables ( See Cable Routing Diagram, Fig. 7 ).
- Reinstall the sheaves assemblies into the decks as shown in the Fig. 6.

**NOTE:** All Posts have the safety racks already installed in the factory. The left front post will have a mounting bracket for the power pack installation.

- Stand posts into position according to Fig. 1 and Fig. 2.
- Install the threaded stud end of the cables through the top of the post. Use a 7/8" Flat Washer and two (2) 7/8" – 14 UNF Hex. Nuts with cable spacers as required to compensate for uneven floors.

**NOTE:** To extend hydraulic cylinder, install the power pack and hydraulic hose assembly before to extending cylinder rod for cable installation. Use 3.5 gallons of ISO32 hydraulic oil.

#### 4.5. POWER PACK INSTALLATION

- Bolt the power pack to the mounting bracket on the front face of the left front post using four (4) 5/16" – 18 UNC x 1" Lg. Hex. head bolts and four (4) 5/16" Lock Washers. Refer to Lift Assembly.

**NOTE:** When working with hydraulic lines and valves, it is important to keep all components clean and free of dirt.

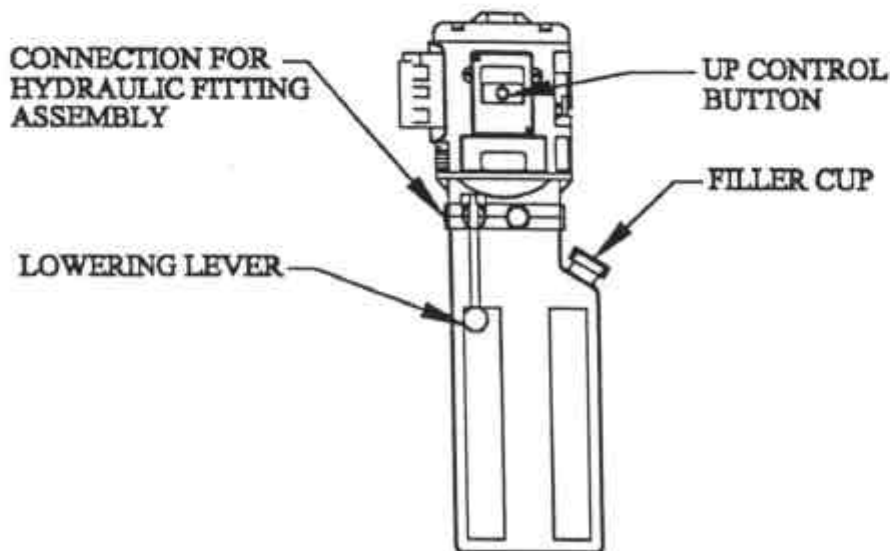


Fig. 8.

#### 4.6. ELECTRICAL CONNECTIONS

**CAUTION:** All electrical connections should be made by a certified electrician. Refer to Fig. 9, electrical diagram for 230V/1Ph. electrical connection, electrical breaker size recommendation: 25 AMPs.

#### Electrical Diagram for 230V/1Ph.

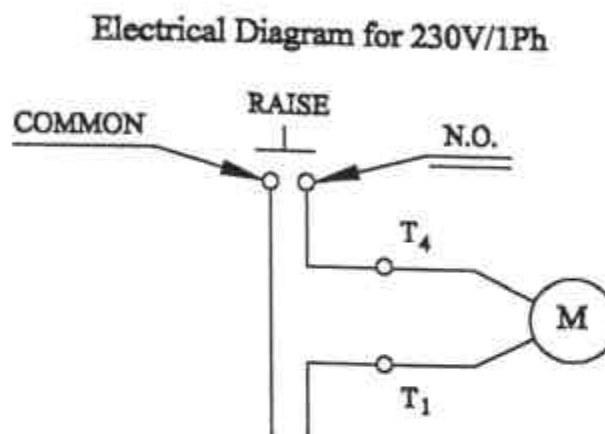


Fig. 9

#### HYDRAULIC AND AIR KITS INSTALLATION

- Locate the supply: 1/4" and 3/8" polytube, 3/8" flexible hydraulic line and the black plastic piping.
- Install the black plastic piping to the steel pipe welded to the front left side of crossmember assembly.

#### 4.7. HYDRAULIC INSTALLATION

- Refer to the Parts Manual, Hydraulic and Air Kit Diagram.
- Connect 3/8" JIC, M end of the flexible hydraulic hose to the fitting at the cylinder.  
**DO NOT OVERTIGHTEN!**

- Install the flow control assembly.
- Attach 3/8" JIC, F end of the flexible hydraulic hose to the adapter fitting on the power pack ( 3/8" JIC, M ).

**NOTE:** The cylinder rod must be extended in order to install the non-threaded end of the cables to the cable flange on the rod.

Use an air chuck and blow air into the fitting at the base of the hydraulic cylinder to extend the rod.

Continue to extend the rod until the non-threaded end of the cable is reached.

Remove the clamp from the cable flange.

Install the cable as shown in Fig. 7, Cable and Routing Diagram.

Reinstall the clamp to the cable flange.

#### 4.8. AIR INSTALLATION

Attach the air valve assembly to the power post.

**NOTES:** Most of 1/4" and 3/8" polytube connections had been made in crossmember assemblies and the left deck. Only the final connection is required (See Air Diagram).

- If Jack Beams are installed, plug one remaining outlet at the front and the rear of the lift.
- If Jack Beams are not installed, use plugs and / or cuplers to plug air outlets.
- Check for the air leaks.
- Check the operation of the air cylinder locks by depressing the air valve.
- Press the "UP" button on the hydraulic power pack. Continue pressing until the lift is supported by the cables.

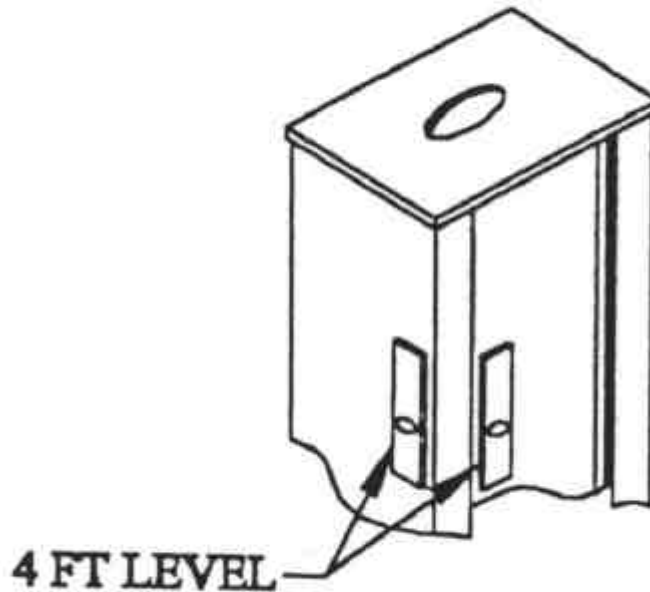
**NOTE:** Make sure that the mechanical safety locks and cable roller are working properly.

#### 4.9. LEVELING PROCEDURE-CABLES

**NOTE:** Use 4' (four) FT level to adjust the cables to level the decks side - to- side and front - to- rear. All cable adjustments can be made at the threaded end of the cable at the top of each 4 (four) posts.

- Tighten 2 ( two) 7/8"-14 UNF Hex Nut of each cable at the top of each post.
- Raise the lift to check operation, lower lift by depressing the air valve and the lever of the power pack.
- Remove hand from the air valve and allow the lift to hang on the cable.
- Use four (4) FT level. Level and square all (4) four posts.
- Begin by leveling the highest post. (See Fig.10).

## **POST LEVELING**



**Fig. 10**

**NOTES: MAKE CERTAIN THAT THE SAFETY RACK IN EACH OF THE POSTS IS SQUARE TO THE CROSSMEMBER ASSEMBLY, AND THAT A MINIMUM CLEARANCE OF 1/8" IS MAINTAINED BETWEEN THE INSIDE FACE OF THE POSTS AND THE PLASTIC GUIDES ON THE CROSSMEMBER ASSEMBLY.**

**CAUTION: USE THE CORRECT WEDGE ANCHOR BOLTS. (SUPPLIED)**

**NOTE: Check and adjust the decks for level using a 4 foot level. Both the front plate cut-outs and rear steer plates should be checked.**

#### 4.10 ANCHOR INSTALLATION

- The  $\frac{3}{4}$ " x 4  $\frac{3}{4}$  Lg. wedge anchor bolts supplied allow for the thickness of the base plates plus a maximum of 1" of shim stock.  
**DO NOT USE ANCHORS SUPPLIED IF MORE THAN INCH OF THE CHIM STOCK IS USED.**
- Recheck all measurements before anchoring the posts.

**NOTE: FIRST ANCHOR THE POWER POST AND THEN WORK CLOCKWISE.**

- Using a  $\frac{3}{4}$ " concrete drill bit and rotary hammer drill, drill through the concrete floor in the four (4) anchor bolt location holes positioned on the base of each post.

#### ANCHOR INSTALLATION

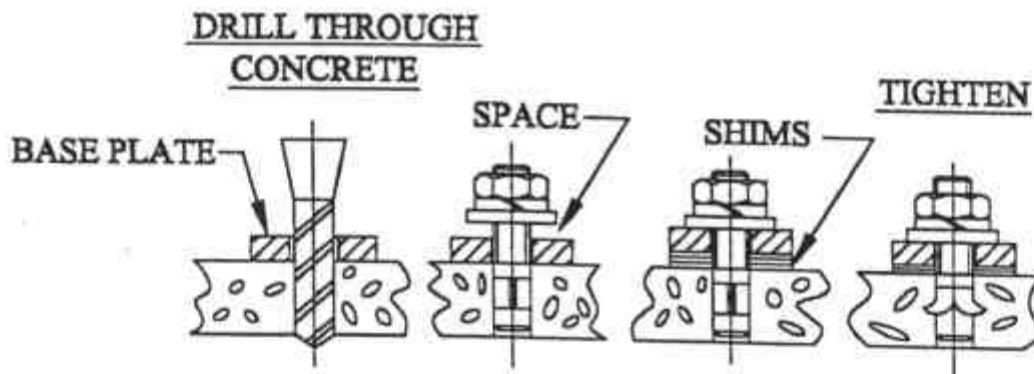


FIG. 12

- Tighten all anchor bolts to a torque of 150 FT. Lb.
- Recheck and adjust the level of post(s) and cable(s) if necessary.

**NOTE: IN CASE WHERE THE FLOOR IS EXTREMELY OUT OF LEVEL, THE MECHANICAL SAFETIES MAY NOT ENGAGE ON THE SAME LOCK.**

#### 4.11 LEVELING PROCEDURE – SAFETY LADDERS

1. After the lift has been leveled on the cables, adjust the safety racks.
2. To check the mechanical safety locks, raise the lift up; make sure all locks engage at the same time making one noise. If the safeties are off slightly, gently bump the "UP" button until you hear the first safety lock engage. Determine at what post the safety engaged; adjust each of the other safety racks until you hear the safety engage. Recheck to make certain that the safeties are engaged together.

3. To do this loosen the 3/8" – 16 UNC x 1" Lg. Hex. bolt at the bottom back of each post and pull safety racks up until they come into full contact with each of the safety shoes on the crossmember assembly.
4. When level, tighten the two (2) 5/8" – 11 UNC Hex. Nuts at the top of each safety rack and the 3/8" – 16 UNC x 1" Lg. Hex. bolts at the bottom back of each post.
5. Raise the lift to check for full operating height of 71". This measurement is taken from the top of the decks to the floor.
6. Install approach ramps using ramp pins and cotter pins provided. Ensure the proper operation of the ramps.
7. Install the front wheel stops using six (6) 1/2" – 13 UNC x 1" Lg. Hex. bolts and 1/2" Lock Washers.
8. Install the four (4) sheave covers over the sheaves in the crossmember assembly.
9. Cycle the lift several times to check proper operation of the cables, safety lock, air locks, etc.

STOP IMMEDIATELY IF THE LIFT IS NOT OPERATING PROPERLY.  
ADJUST AND RECHECK FOR PROPER OPERATION.

## 5. SAFETY AND OPERATING INSTRUCTIONS

- **Inspect** your lift daily. Do not operate it if malfunctions occur or damaged parts have been found.
- **Never** attempt to overload the lift. The manufacturer's rated capacity is shown on the serial number tag on the power post.
- **Operating controls**, **DO NOT OVERRIDE** the safeties. The mechanical safeties are designed to engage automatically on the way up. Press the up switch of the power pack to go up. When the desired height is reached, lower onto the safety. To lower, raise off of the safety locks, then press the air release valve and the lowering release lever at the same time.
- **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.
- **Caution:** NEVER work under the lift unless the mechanical safety locks are engaged.

- **Before** driving vehicle on, make sure lift is in the fully down position.
- **Before** removing the vehicle from lift, make sure the lift is in fully down position and ensure that all tools have been removed from the decks surfaces.
- **Always** keep the lift area free from debris. Grease and oil spills should always be cleaned up immediately. Never leave any tools or parts laying on the decks.
- **Never** operate the lift with passengers in vehicle.

**NOTE: DO NOT ATTEMPT TO OPERATE THIS LIFT IF ANY PART IS NOT WORKING PROPERLY OR YOU HAVE NOT READ THE COMPLETE OPERATING INSTRUCTION MANUAL.**

## **6. RECOMMENDED MAINTENANCE**

### **DAYLY**

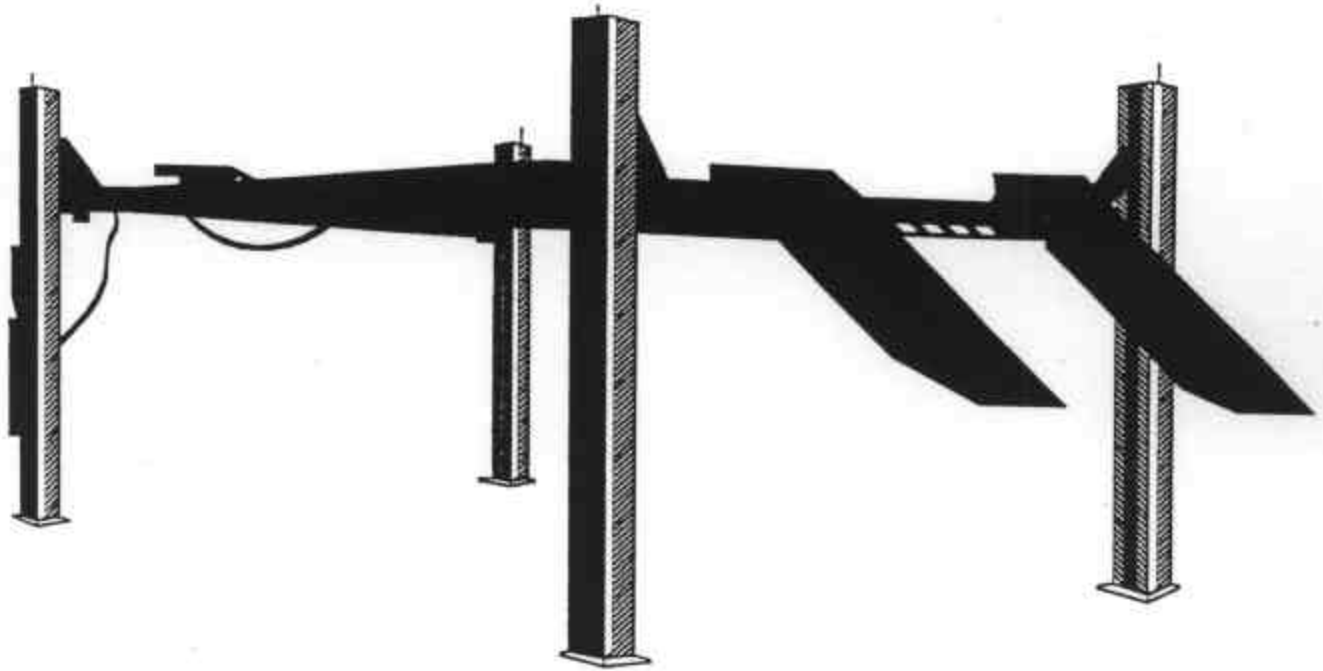
1. Check general operation of the lift.
2. Check operations of mechanical safety locks.
3. Check operation of air release valve for the air leaks.
4. Check operation of the cables and the pulleys.
5. Check and drain the water trap filter bowl.

### **MONTHLY**

1. Check the anchor bolts (if loose re-torque to 150 Ft. Lb.) Replace concrete if anchors continue to loosen.
2. Check all air and hydraulic hoses, fittings and cylinders for leaks.
3. Check level of oil in the power pack reservoir when the lift is in the lowered position. Add if required.
4. Check lifting cables for wear, separation or breaks. If found, replace cables immediately. Lubricate cables with oil or a light grease.
5. Check and adjust cables if lifting is uneven. Make adjustments with the weight on the lift.
6. Check all fasteners and tighten as required.
7. Check all pulleys on crossmember assembly and under the runways for wear or play. Replace immediately. Pulleys pins are held in place by a 3/8" – 16 UNC x 1" Lg. Hex. Hd. Bolt. Make certain that this bolt is in position and tight.
8. Check and adjust safety racks if the lift is not level on safety, or if safeties do not engage properly.
9. Check and clean full floating rear steer plates. Lubricate with oil or light grease.
10. Lubricate all safety shoes and locks.



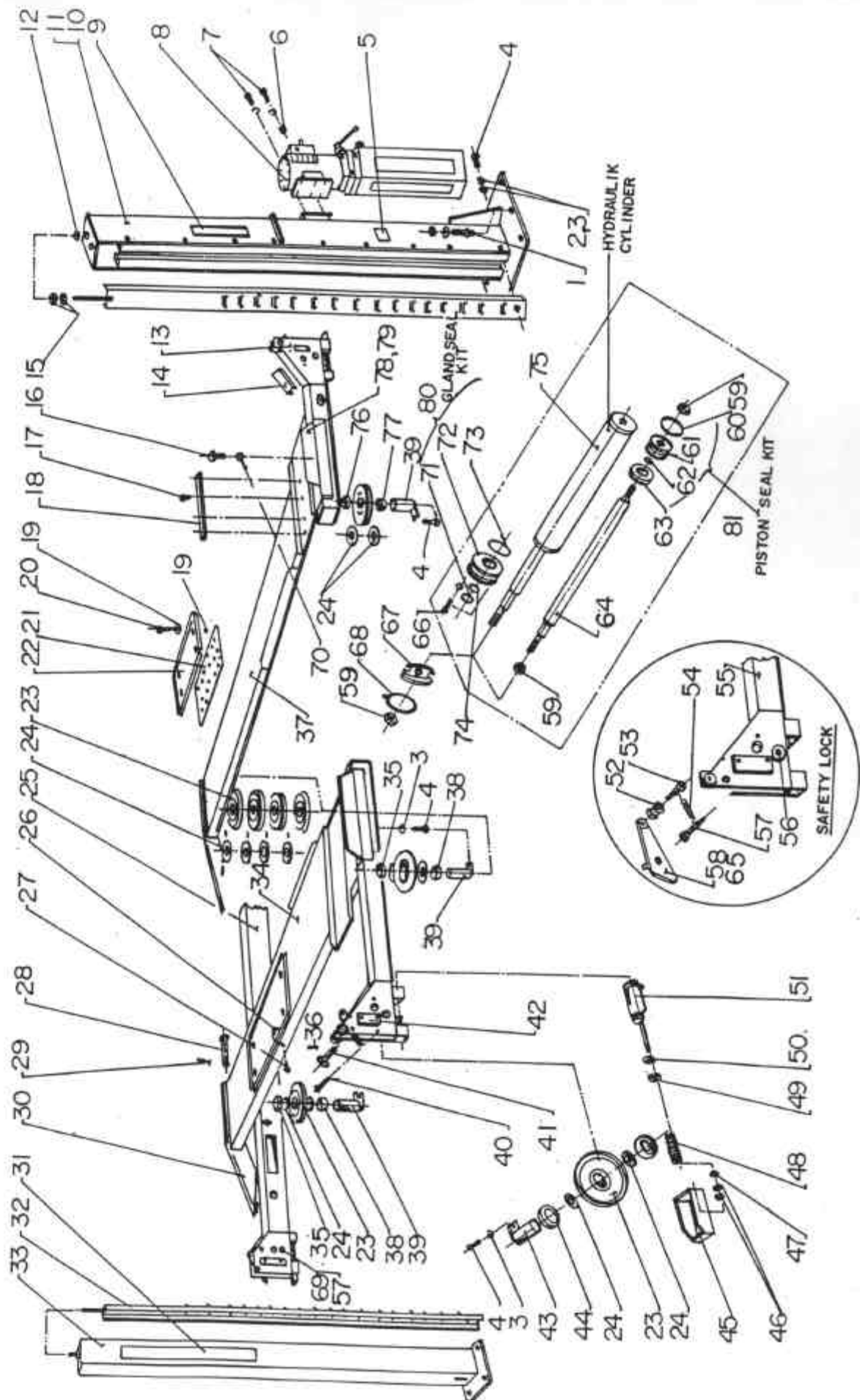
**FOUR - POST LIFT SYSTEM**  
**OPEN FRONT BEAM**  
**FPOB10; FPOB12 SERIES**



**INSTALLATION AND OPERATION MANUAL**  
**PARTS MANUAL**

**SAVE THESE INSTRUCTIONS, READ ALL INSTRUCTIONS**

# LIFT ASSEMBLY OPEN BEAM



## FOUR-POST LIFT SYSTEM

### OPEN FRONT BEAM

#### PARTS LIST

<u>ITEM:</u>	<u>QTY:</u>	<u>DESCRIPTION:</u>	<u>PART #:</u>
1.	22	Wedge anchors $\frac{3}{4}$ " – 10 UNC x 4 $\frac{3}{4}$ " Lg. (Set: Flat Washer and Hex. Nut)	6-0089
2.	12	Hex. Hd. Bolt, $\frac{3}{8}$ " – 16 UNC x 1" Lg. Gr. # 8	6-0016
3.	14	Lock Washer, $\frac{3}{8}$ " I.D.	6-0068
4.	8	Flat Washer, $\frac{3}{8}$ " I.D.	6-0020
5.	1	Serial Tag	6-0090
6.	4	Hex. Hd. Bolt, $\frac{5}{16}$ " – 18 UNC x 1" Lg.	6-0080
7.	4	Lock Washer, $\frac{5}{16}$ " I.D.	6-0011
8.	1	Power Pack, 230V/1 Ph./50,60 Hz.	6-0091
9.	1set	"Safety Instruction Decal"	6-0102
10.	1	Power Post (Open Beam )	3-0016
11.	1	Post ( P./S. )	3-0017
12.	4	Flat Washer, $\frac{3}{4}$ " I.D.	6-0092
13.	1	Front Crossmember ( D.S.)	3-0018
14.	4	Sheave Cover	1-0178
15.	8	Hex. Hd. Nut, $\frac{5}{16}$ " – 11 UNC, GR. # 8	6-0061
16.	6	Hex. Hd. Bolt $\frac{1}{2}$ " – 13 UNC x 1" Lg.	6-0101
17.	12	Hex. Hd. Bolt $\frac{1}{4}$ " – 20 UNC x 1" Lg.	6-0026
18.	4	Spacer Bar	1-0189
19.	8	Flat Washer $\frac{13}{32}$ " I.D. x 2" O.D.	6-0100
20.	8	Shoulder Bolt, $\frac{3}{8}$ " DIA. x $\frac{5}{8}$ " Lg.	6-0094
21.	2	Raise Plate	2-0074
22.	2	Rear Steer Plate	2-0038
23.	11	Sheave Assembly	1-0194
24.	21	Nylon Thrust Washer	1-0195
25.	1	Rear Crossmember Weldment	4-0014
26.	4	Locking Pin Assembly	1-0196
27.	4	Self Tapping Screw # 10 x $\frac{1}{2}$ " Lg.	6-0095
28.	2	Ramp Pin	2-0030
29.	6	Cotter Pin $\frac{1}{8}$ " DIA. x 1 $\frac{1}{2}$ " Lg.	6-0071
30.	2	Drive on Ramp ( Welding )	3-0014
31.	2	Decal "Planet Lift Inc. "	6-0096
32.	4	Safety Rack	3-0012
33.	2	Post	3-0015
34*	1	Alignment Deck Welding 175" W/B (P.S.)	4-0012
35.	2	Sheave Spacer 2 $\frac{1}{2}$ " Lg.	1-0182

## PARTS LIST

<u>ITEM:</u>	<u>QTY:</u>	<u>DESCRIPTION:</u>	<u>PART #:</u>
36.	6	Cotter Pin 1/8" DIA. x 1 1/2" Lg.	6-0071
37*	1	Alignment Deck Welding 175" W/B (D.S.)	4-0011
38.	2	Sheave Spacer 1 1/4" Lg.	1-0181
39.	4	Deck Sheave Pin	1-0191
40.	2	Hex Hd. Bolt 3/8" – 16 UNC x 2 3/4" Lg.	6-0063
41.	4	Safety Lock Pin	1-0141
42.	8	Plastic Bracket	1-0188
43.	4	Sheave Pin	1-0145
44.	8	Sheave Spacer 3/8" Lg.	1-0179
45.	4	Safety Shoe	1-0140
46.	8	Hex. Hd. Nut 1/4" – 28 UNF	6-0059
47.	4	Flat Washer 1/4" I.D.	6-0097
48.	4	Compressing Spring	1-0144
49.	4	Hex. Nut, 5/8" – 18 UNF	6-0061
50.	4	Internal Tooth Lock Washer, 5/8" I.D.	6-0062
51.	4	Air Cylinder 5 1/2" Lg. Rod	6-0066
52.	4	Cable Roller	1-0142
53.	4	Shoulder Bolt 3/8" DIA. x 1 1/2" Lg.	6-0064
54.	4	Tension Spring	1-0143
55.	1	Crossmember Welding ( P.S. )	3-0019
56.	8	Cam Follower	6-0137
57.	8	Shoulder Bolt 3/8" DIA. x 3/4" Lg.	6-0070
58.	2	Safety Lock ( R.S. )	1-0197
59.	3	Lock Nut 1" x 14 UNF – 2A	6-0099
60.	1	Wear Ring	6-0057
61.	1	Piston	2-0060
62.	1	"O" Ring	6-0055
63.	1	Piston Seal	6-0056
64.	1	Piston Rod	2-0057
65.	2	Safety Lock ( L.S. )	1-0198
66.	2	Hex. Hd. Bolt 3/8" – 16 UNC x 1 1/4" Lg. Gr.# 8	6-0104
67.	1	Cable Flange	1-0127
68.	1	Cylinder Clamp	6-0098
69.	4	Plastic Guide	1-0190
70.	6	Lock Washer 1/2" I.D.	6-0014
71.	1	Seal Rod	6-0052
72.	1	Gland	2-0058
73.	1	"O" Ring	6-0053
74.	1	Rod Wiper	6-0051
75.	1	Hydraulic Cylinder (4-Post PLA-10 000; PLA- 12 000;)	4-0017

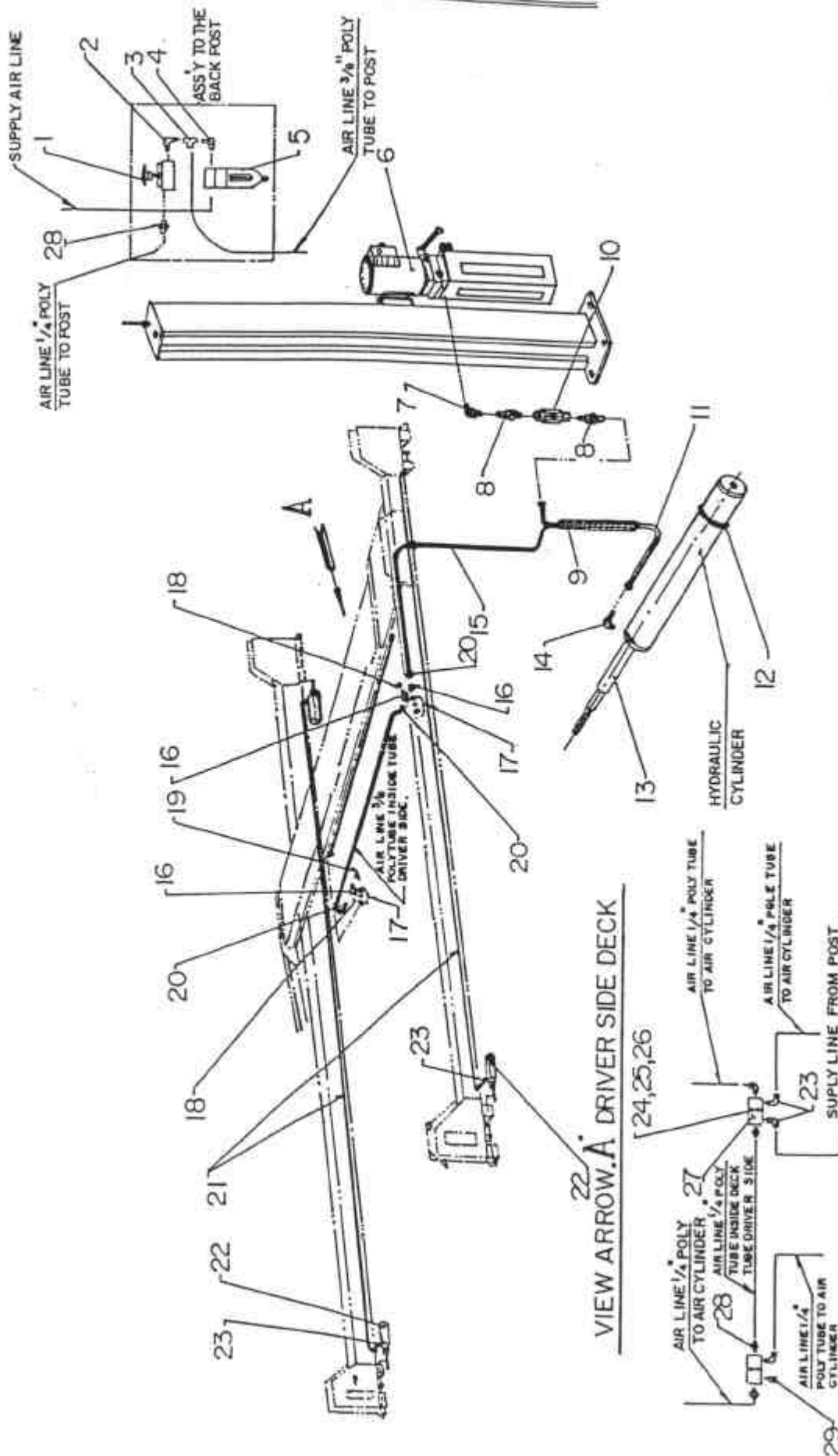
**PARTS LIST**

<u>ITEM:</u>	<u>QTY:</u>	<u>DESCRIPTION:</u>	<u>PART #:</u>
76.	2	Sheave Spacer 1 ¾" Lg.	1-0183
77.	2	Sheave Spacer 2" Lg.	1-0184
78.	2	Wheel Stop	1-0149
79.	3	"Caution" Tape 38"Lg.	6-0093
80.	1	Gland Seal Kit	6-0105
81.	1	Piston Seal Kit	6-0106

**PARTS LIST FOR SERVICE MODELS:**

*	1	Service Deck Weldment (L.S.) W/B 145"	4-0024
**	1	Service Deck Weldment (R.S.) W/B 145"	4-0025
*	1	Service Deck Weldment (L.S.) W/B 175"	4-0026
**	1	Service Deck Weldment (R.S.) W/B 175"	4-0027
*	1	Service Deck Weldment (L.S.) W/B 205"	4-0028
**	1	Service Deck Weldment (R.S.) W/B 205"	4-0029

# HYDRAULIC AND AIR KITS ASSEMBLY



## **FOUR-POST LIFT SYSTEM** **OPEN FRONT BEAM**

### **HYDRAULIC AND AIR KITS** **PARTS LIST**

<b><u>ITEM:</u></b>	<b><u>QTY:</u></b>	<b><u>DESCRIPTION:</u></b>	<b><u>PART#:</u></b>
1.	1	Air Valve Push button	6-0107
2.	2	90° Elbow 1/8"NPT, M to 1/8"NPT, M	6-0143
3.	1	"T" 1/8" NPT, F to 1/8" NPT, F to 1/4" Polytube Branch	6-0144
4.	1	90° Elbow 1/8"NPT, M to 1/4"NPT, M	6-0145
5.	1	Air Filter	6-0108
6.	1	Power Pack 230V /1 Ph.	6-0079
7.	1	90 ° Adapter, 3/8" NPT, M x 9/16" – 18 M	6-0109
8.	2	Adapter, 3/8" NPT, M x 3/8" JIC, F, Swivel	6-0110
9.	1	4'FT Hose Guard	6-0111
10.	1	Flow Control	6-0112
11.	1	Hydraulic Hose Assembly, 3/8" Swivel x 3/8" JIC, M, 148" Lg.	6-0113
12.	3	Cable Tie	6-0114
13.	1	Hydraulic Cylinder and	4-0017
14.	1	90° Elbow, 1/4" NPT, M x 3/8" NPT, M	6-0115
15.	1	Polytube 3/8" DIA., 26' FT Lg.	6-0116
16.	3	Street Tee 1/4" NPT	6-0117
17.	2	Terminal Bolt, 3/4"	6-0118
18.	2	Plug, 1/4" NPT	6-0119
19.	1	Street Elbow 1/4" NPT	6-0120
20.	3	Adapter, 3/8" Polytube x 1/4" NPT	6-0121
21.	1	Polytube 1/4" DIA., 50' FT Lg.	6-0122
22.	4	Air Cylinder 5 1/2" Lg. Rod	6-0066
23.	8	90° Elbow, 1/8" NPT x 1/4" Polytube	6-0065
24.	4	Hex. HD. Bolt 1/4" – 20 UNC x 1 1/2" Lg.	6-0123
25.	4	Hex. Nut, 1/4" – 20 UNC	6-0027
26.	4	Lock Washer 1/4" I.D.	6-0002
27.	2	Manifold	2-0075
28.	4	Adapter, 1/4" Polytube x 1/8" NPT	6-0124
29.	1	Plug, 1/8" NPT	6-0125



<p><b>⚠ WARNING</b></p>  <p>Clear area if vehicle is in danger of falling.</p> <p>©</p>	<p><b>⚠ WARNING</b></p>  <p>Remain clear of lift when raising or lowering vehicle.</p> <p>©</p>
<p><b>⚠ WARNING</b></p>  <p>Keep clear of pinch points when lift is moving.</p> <p>©</p>	<p><b>⚠ WARNING</b></p>  <p>Keep feet clear of lift while lowering.</p> <p>©</p>
<p><b>⚠ WARNING</b></p>  <p>Do not override self-closing lift controls.</p> <p>©</p>	<p><b>⚠ WARNING</b></p>  <p>Chock wheel to prevent vehicle movement.</p> <p>©</p>
<p>The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style</p> <p>Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL 32903</p> <p>They are protected by copyright. Set of labels may be obtained from ALI or its member companies.</p> <p>© 1992 by ALI, Inc. ALI-WL200w</p>	





<p><b>SAFETY INSTRUCTIONS</b></p>  <p>Read operating and safety manuals before using lift.</p> <p>©</p>	<p><b>SAFETY INSTRUCTIONS</b></p>  <p>Proper maintenance and inspection is necessary for safe operation.</p> <p>©</p>
<p><b>SAFETY INSTRUCTIONS</b></p>  <p>Do not operate a damaged lift.</p> <p>©</p>	<p>The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.</p> <p>Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL. 32903.</p> <p>They are protected by copyright. Set of labels may be obtained from ALI or its member companies.</p> <p>© 1992 by ALI, Inc. ALI/WL200s</p>



# MOHAWK.

## Because Quality Lasts Forever.



### Model USL-6000

Full rise, space-saving, no-post, portable scissors lift, offers full under-car access.



### Model A-7

The A-7 is a 7,000 lb. capacity asymmetric lift that allows full opening of all vehicle doors as well as total undercar/underdash access, thanks to Mohawk's unique "clear-floor" design. Low 4" arms accommodate all imports and low-riding sports cars. Includes both 3" and 6" truck adapters.



### Model System I

The 9,000 lb. capacity System I, like all Mohawk lifts, features Mohawk's patented hydraulic equalization system with adjustable overhead (or optional underground) hydraulic lines. Offers low 3 1/2" swing arms and comes standard with truck adapters.



### Model LMF-12, TP-15, TP-18, TP-26 & TP-30

These 12,000 to 30,000 lb. capacity models are the ideal heavy-duty lifts for up to Class VI trucks. Mohawk's unique "clear floor" design makes these the perfect lifts for all fleet applications. Truck adapters are standard equipment.



Model LMF-12



Model TR-50

### TR-Series Ramp Style Lifts

Standard models from 25,000 up to 125,000 lbs. for total under-vehicle access.

Ramp lengths from 20' to 50'. Completely operated by a single technician, and features fully interlocked, redundant safety systems.



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