



**MODEL PFX1**  
**Portable Car Lift**  
**CAPACITY — 6,000 LBS.**

*(Centered Load)*

## **GENERAL**

## **INSTALLATION INSTRUCTIONS**

## **OPERATION AND MAINTENANCE DATA**



**CORPORATION / ROTARY LIFT DIVISION**

MEMPHIS, TENN. • MADISON, IND. • SCARBOROUGH, ONT.

**MR. INSTALLER:** Please follow these instructions closely to insure a good installation and satisfactory operation of this lift.

After installation pass this instruction book on to the lift owner or attach to the power unit motor.

1. PLEASE check your lift shipment against the bill of lading and this material list. Enter any claims for damage or shortage at once with the delivering carrier.

## MATERIAL LIST

QTY.	DESCRIPTION	PARTS BOX CONTENTS			
1	Superstructure complete with Pads	1	Hydraulic Cylinder	2	½" x 1" Cap Screws & L. W.
1	Power Unit	1	Wheel Dish	2	Cylinder Clips
1	Parts Box	1	Locking Leg	2	¾" Bolts, Nuts, L. W.
1	Power Unit Stand	2	Hydraulic Hoses	4	Auxiliary Rubber Pads
				1	Leg Release Handle

## LIFT LOCATION:

2. Check architects' building plans when applicable. The lift should be located on a level floor in a space which will allow adequate working space around the vehicle. See Lift Plan in Fig. 1. At full rise, the lift moves the vehicle REARWARD 12".

## SUPERSTRUCTURE INSTALLATION:

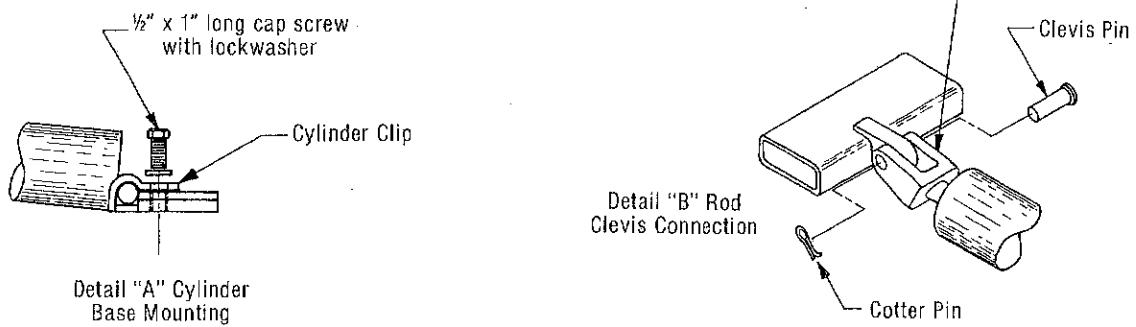
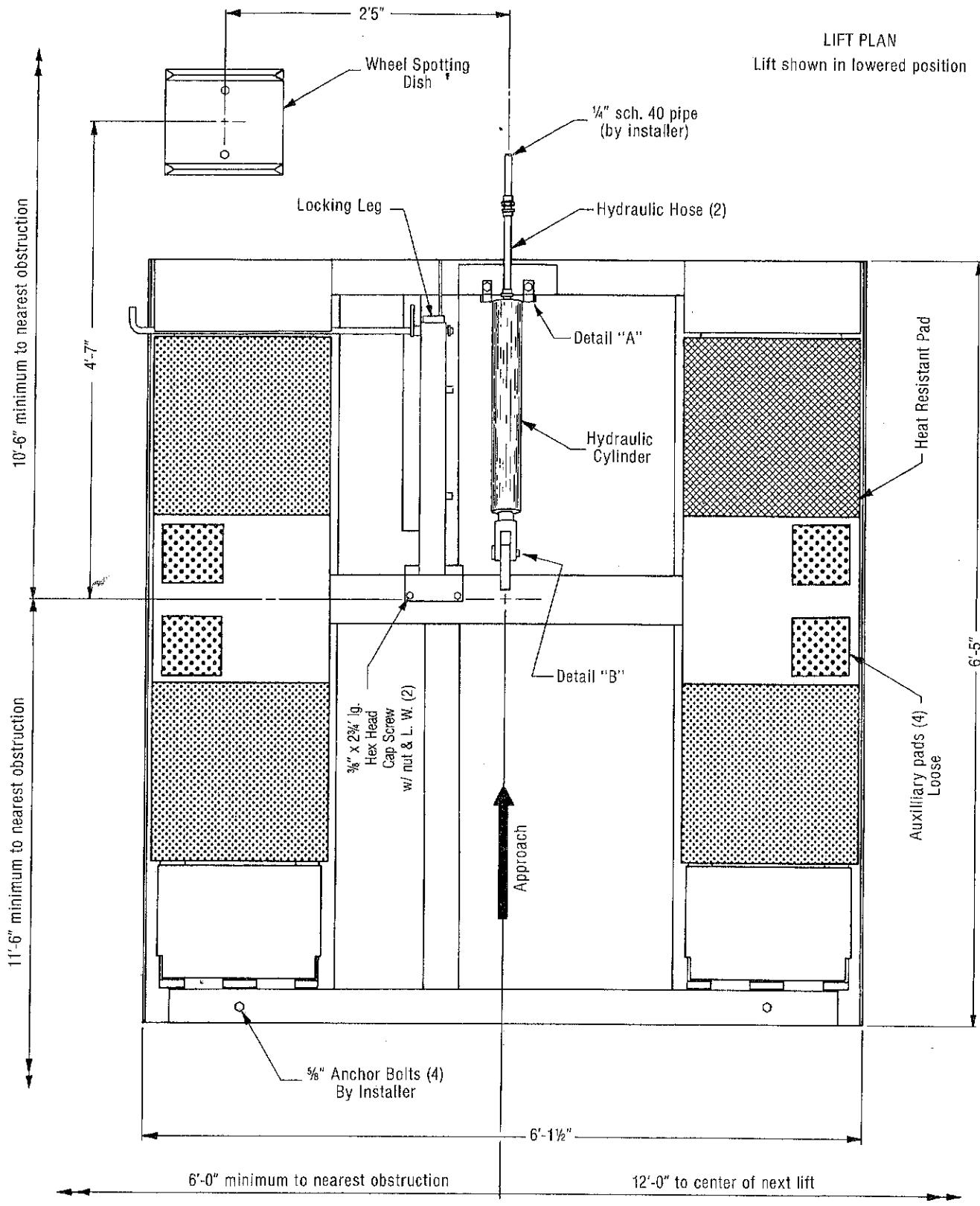
3. Remove shipping bands from superstructure.
4. Position superstructure in desired area. Mark location of (4) floor anchors. Move superstructure to clear anchor locations. For concrete floors, use Phillips Red Head #S-58 or equivalent. If floor will not hold insert type anchors, use ¾" thru-bolts, threaded studs set in sulphur or other suitable anchoring means. Anchors supplied by installer.
5. After anchors are set, relocate superstructure and secure to floor. **IMPORTANT:** The frame must not be twisted, bent or otherwise misaligned by unlevel floors or improper anchoring. Misalignment will cause damage to the lift. Maximum out-of-level at anchors are ¼" side to side, ½" front to rear. Shim at anchors if floor is crowned more than ¼" between front to rear anchors.
6. Install the hydraulic cylinder as shown in Fig. 1. Grease cylinder base mounts and rod clevis before assembly. Secure cylinder to lift base with cylinder clips and ½" x 1" long cap screws. Attach clevis end of cylinder to yoke bar with 1" clevis pin and cotter pin. Important: Clevis end must be positioned as shown for maximum vertical drive over clearance.

## WHEEL DISH INSTALLATION:

7. The front wheel dish is located as shown in Fig. 1. Secure to the floor with ¾" anchors supplied by installer.

## POWER UNIT INSTALLATION:

8. Power unit comes completely assembled and adjusted.
9. Install power unit stand & power unit per Fig. 2. If power unit stand is not used, motor must be at least 24" above floor. Standard Nema 1 motor is not suitable for outside installation. Factory recommends ordering a Nema 4 (weatherproof) power unit for this application.



**Fig. 1**

## POWER UNIT PIPING:

10. This unit operates at high pressure. All hydraulic lines, hoses and fittings must be clean. Dirt, sand, thread turnings and other objects must be removed by "rodding," brushing, flushing with solvent or other means. If not removed, these foreign objects clog the strainer and damage cylinder seals.
11. Schedule 40,  $\frac{1}{4}$ " steel pipe may be used for oil line, if the total run does not exceed 25 feet. Schedule 80,  $\frac{3}{8}$ " pipe may be used up to 45 feet. Use 300# W.O.G. malleable fittings with either pipe size.
12. Install one (1)  $\frac{1}{4}$ " hydraulic hose in discharge port of power unit strainer and other hose in base of lift cylinder, Fig. 1. Complete oil line piping from cylinder to unit. Secure all rigid pipes. DO NOT clamp or secure hydraulic hoses.

## POWER UNIT ELECTRICAL:

13. The unit comes completely wired and ready to plug into a 115 volt, single phase, 60 cycle circuit. A 3-wire power cord with grounding plug is provided.
14. This is a high-torque  $\frac{1}{2}$  hp. motor which requires a separate circuit with #12 minimum wire size and 30 amp. fuses or 30 amp. time delay circuit breakers.
15. Electrical wiring should conform with the National Electric Code for ordinary locations.

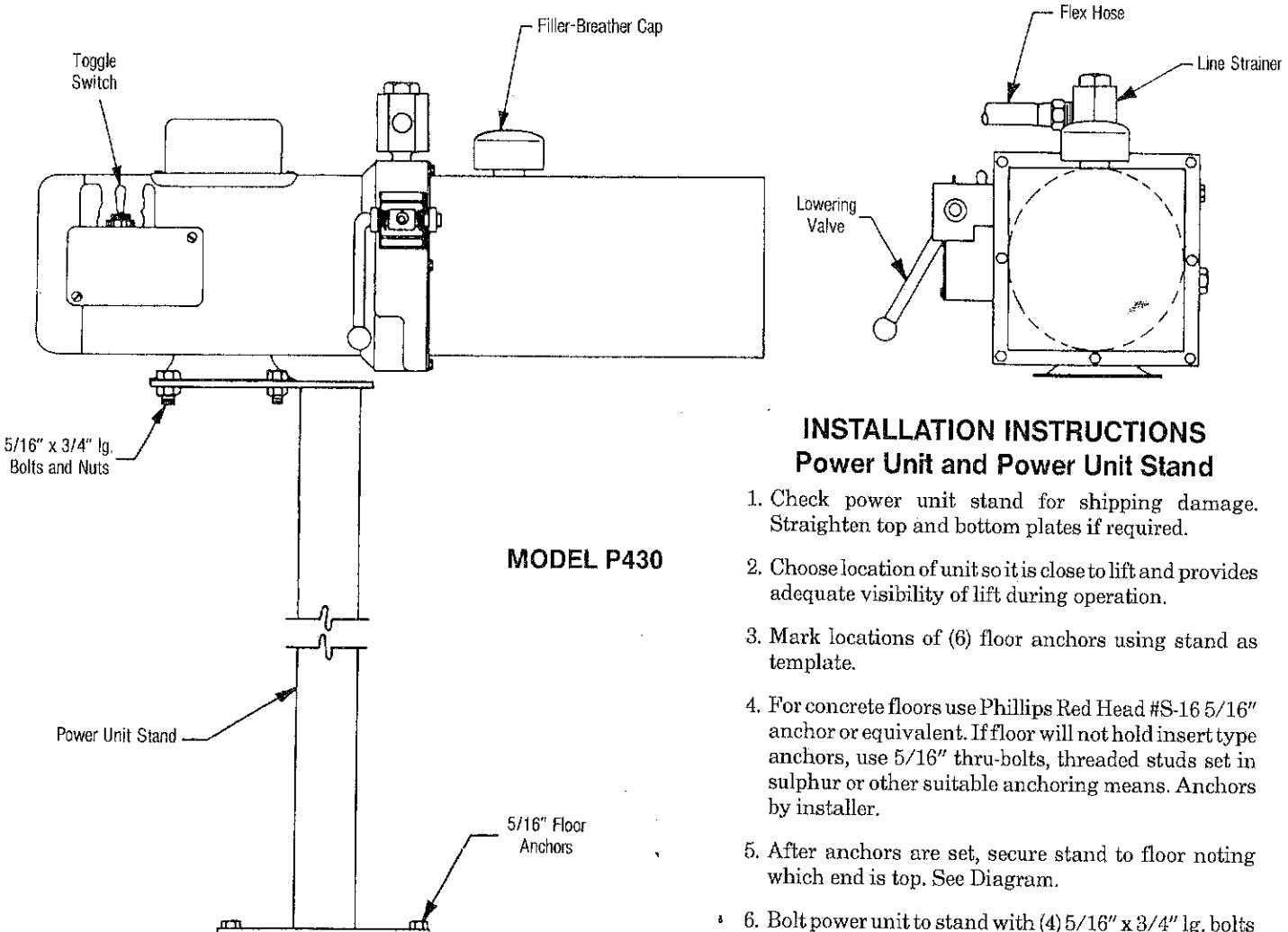


Fig. 2

## INSTALLATION INSTRUCTIONS Power Unit and Power Unit Stand

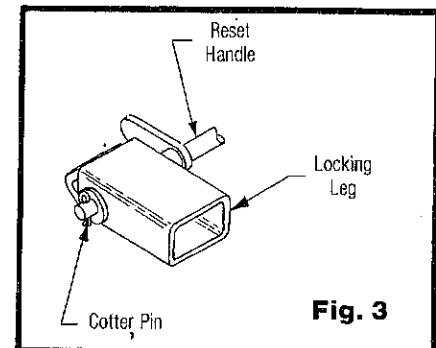
1. Check power unit stand for shipping damage. Straighten top and bottom plates if required.
2. Choose location of unit so it is close to lift and provides adequate visibility of lift during operation.
3. Mark locations of (6) floor anchors using stand as template.
4. For concrete floors use Phillips Red Head #S-16 5/16" anchor or equivalent. If floor will not hold insert type anchors, use 5/16" thru-bolts, threaded studs set in sulphur or other suitable anchoring means. Anchors by installer.
5. After anchors are set, secure stand to floor noting which end is top. See Diagram.
6. Bolt power unit to stand with (4) 5/16" x 3/4" lg. bolts and nuts supplied. See Diagram.
7. Refer to lift installation instructions for piping and electrical.

## TESTING:

16. Remove oil reservoir filler cap and pour in (3) quarts of clean premium grade Dexron II Automatic Transmission Fluid.
17. Oil lines must be bled. Loosen swivel fitting on cylinder hose. Jog power unit starting switch. Pump will force oil into lines and bleed air out loose fitting. Retighten hose connection.
18. Check oil lines for leaks by starting unit and raising lift to full rise. Release switch immediately. Inspect all joints for leaks and tighten if required. Lower lift and add more ATF to oil reservoir. Full oil level should be 1½" below filler opening.

## FINAL ASSEMBLY:

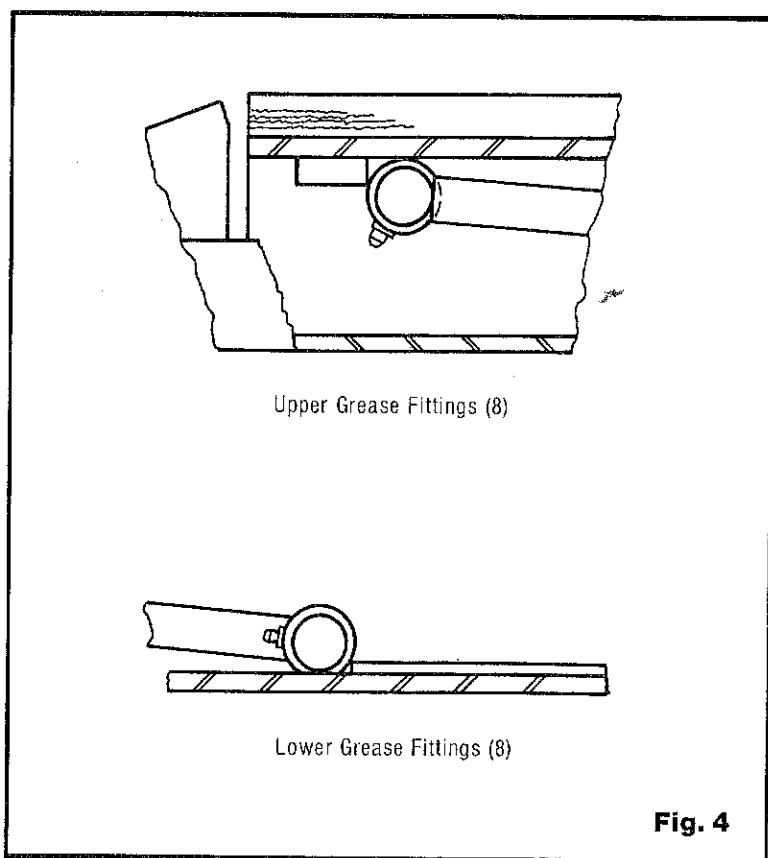
19. Attach locking leg to superstructure with ¾" bolts supplied. Adjust connection so that leg is parallel with frame base. Install leg release handle per Fig. 3. Lubricate release handle and upper hinge of leg.
20. Raise and lower empty lift several times and check for binding, misalignment, or damage. Correct discrepancies before raising a vehicle. It is normal for the empty lift at full rise to lower slow.
21. After lift has been cycled several times, remove strainer element at power unit, clean and replace.



**Fig. 3**

## LIFT OPERATION:

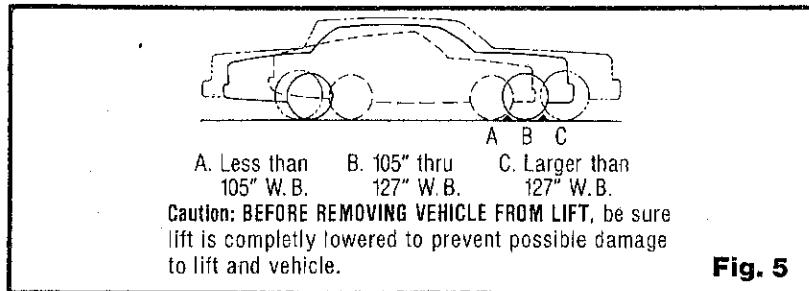
22. Lift capacity is 6,000 lbs. Do not overload. Do not raise limousines, pick-up trucks, vans or other specialty vehicles on this lift.
23. Lower lift. Center vehicle over lift with left front tire located with wheel dish according to vehicle wheelbase. See Fig. 5. The right front pad is heat resistant, see Fig. 1. Do not back vehicle on lift as catalytic converter may burn other pads.
24. Support pads will make contact with car frame or any support structure at the outer body perimeter.
25. Raise lift by actuating UP switch on power unit motor. Stop lift by releasing switch.
26. Stop lift when pad support engages vehicle. Inspect lifting points. Pad supports must be in secure contact with vehicle. Refer paragraph 24. Important: If additional clearance is needed to prevent under carriage of vehicle from contacting cylinder clevis, lower lift and place auxiliary pads between vehicle and stationary pads on lift.
27. Raise lift to desired height. If lift is raised to full rise, release UP switch prior to or the instant the cylinder stops. Raise lift until locking leg latches at desired height.
28. To lower, rotate locking latch handle counter-clockwise. The cam will raise the leg above the stop bars. Lift may be lowered by actuating lowering valve on power unit. Locking leg will automatically reset when lift is raised.
29. Lift must be fully lowered before car is removed from lift.



**Fig. 4**

## MAINTENANCE:

30. Monthly check fluid level in reservoir. Keep level  $1\frac{1}{2}$ " from tank top.
31. Monthly raise lift and lubricate hinge members at the 16 grease fittings provided, see Fig. 4. Replace fittings with #3009 Alemite. Lubricate cylinder clevis pins, locking leg hinge and release handle.
32. Inspect all superstructure parts weekly for signs of damage due to overloading and rough handling.
33. Check release handle for damage or binding.
34. Inspect hoses and piping for signs of wear or leaks. Replace and repair as required.



INSTALLER: Please give these instructions to the lift owner.

### **Regular Maintenance Insures Satisfactory Operation**

Whenever service or replacement parts are required, write us for location of nearest dealer — there's a Rotary Parts and Service Depot in your area. Always include the serial number stamped on the power unit.

Rotary parts are stocked by Rotary Parts Depots throughout the United States

**Use Genuine Rotary Parts for Low Cost**

**DOVER CORPORATION / ROTARY LIFT DIVISION**

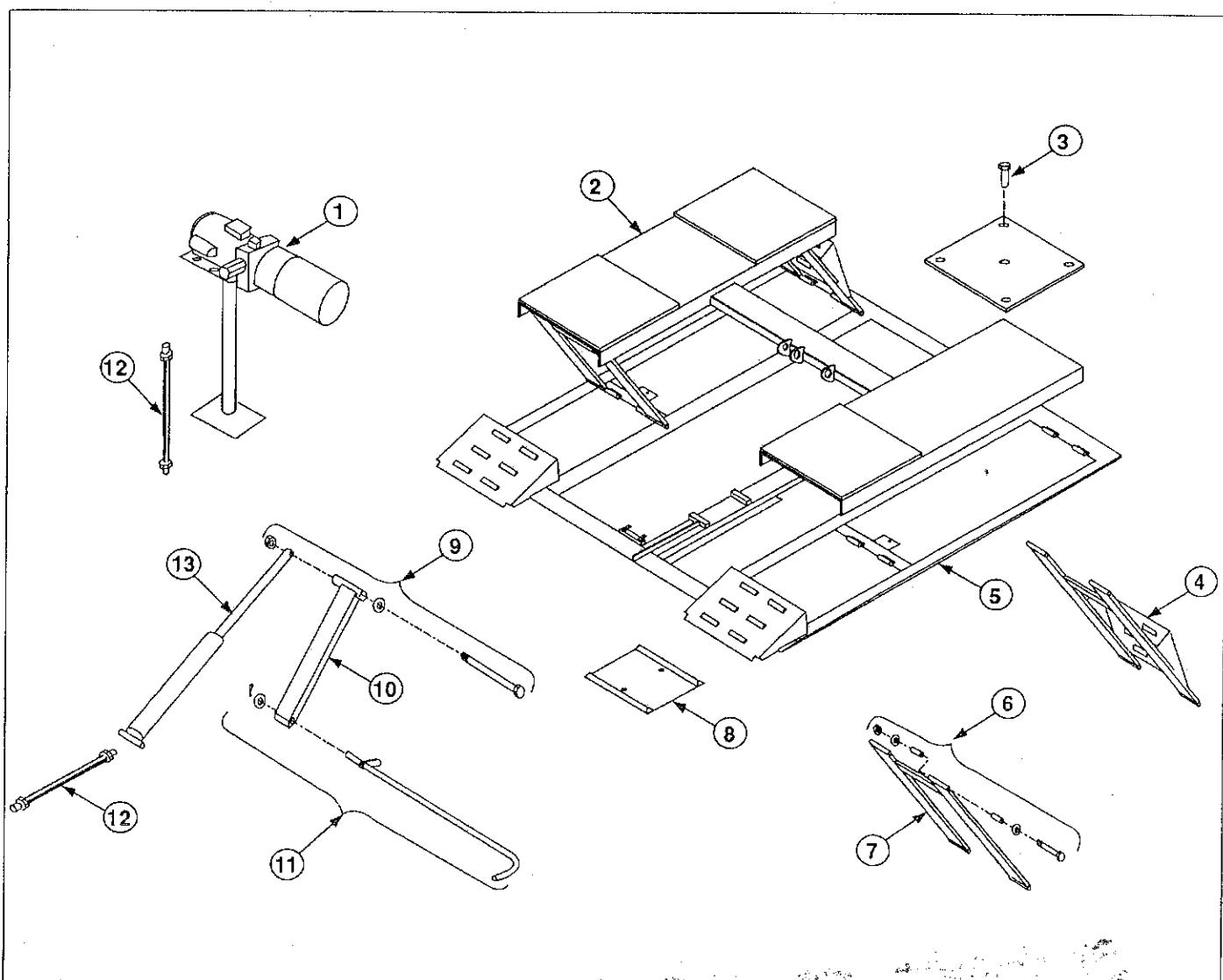
MEMPHIS, TENN. • MADISON, IND. • SCARBOROUGH, ONT.

**ROTARY LIFT**

P.O. Box 30265, Memphis, TN 38130

WORLD LEADER IN LIFT SYSTEMS

A DOVER INDUSTRIES COMPANY

**MODEL PFX-1  
PARTS BREAKDOWN****PFX-1 REPLACEMENT PARTS**

ITEM NO.	DESCRIPTION	PART NO.	ITEM NO.	DESCRIPTION	PART NO.
1	Power Unit	P501	8	Wheel Spotting Dish	FF729
2	Superstructure "H"	FJ2253	9	Locking Leg Hinge Pin Kit	FJ2258
3	1/4" — 20NC x 1" Ig. PHS w/Nut (5 per pad)		10	Locking Leg	FA2243
4	Rear Leg Assembly	FJ2256	11	Release Handle Assembly	FA2243-3
5	Superstructure Base	FJ2254	12	Hose (2 Req'd)	FJ80
6	Leg Hinge Bushing Kit	FJ2257	13	Hydraulic Cylinder	FJ2248
7	Front Leg Assembly	FJ2255			

**OWNERS RECORD**

Complete information  
at right and keep in  
a safe place.

Date Installed \_\_\_\_\_  
 Installed in Bay # \_\_\_\_\_  
 Std. Serial # \_\_\_\_\_ P501  
 Factory Order # L \_\_\_\_\_

**IMPORTANT:** When ordering parts  
always give exact model and power  
unit serial number. Model number is  
shown on nameplate attached to  
yoke tube. Serial number is located  
on side of power unit reservoir.

NOTE: For Replacement Parts - See Your Nearest Rotary Distributor Or Parts Depot.

INDEX 2.5.2.1