

PANZITTA SALES & SERVICE
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OPERATOR'S MANUAL

TWO - POST LIFTS

INTRODUCTION

The Ben Pearson two post lifts consist of two vertical post each with a heavy duty carriage and two telescoping lifting arms. Sealed for life mast bearings are used throughout. Lifting is done by two hydraulic cylinders which are coupled to the carriages with heavy duty leaf chain. The carriages are equalized with aircraft quality steel cable that is non-load bearing in normal operation. A 1 1/2 H.P. A.C. power unit provides hydraulic pressure up to 2000 P.S.I. A full length self resetting safety catch and separate slack chain catch are standard on each post. Anytime the lift is raised the catches will automatically engage. There is no trip to release. Rugged lifting arms utilize a rotating pad and two lengths of extensions that provide flexibility in lifting height for each arm. Lockable stabilizer bars will position each arm and hold it in a locked position.

To minimize the chance of making an error in installation, please read the installation manual through carefully before beginning to install the lift.

PREPARATION

The installation of any Ben Pearson two post lift is relatively simple and can be accomplished in just a few hours by two men. A fork truck or a third man will be required to raise the vertical post and help when lifting the overhead structure on the LMO model lifts.

TOOLS REQUIRED

1. A 1/2" or 3/8" drive ratchet.
2. 1/2", 9/16, and 3/4" sockets or additional end wrenches.
3. 1/2", 9/16, 3/4", 7/8", and 1 1/8" end wrenches.
4. 10" or 12" and 15" adjustable crescent wrench.
5. Hammer.
6. Needle nose pliers.
7. Small drift punch.
8. Magnetic level or small level.
9. Flat and Phillips head screw drivers.
10. Rotary hammer with 3/4" carbide masonry bit.
11. Two 10' step ladders or a small fork lift.
12. 11/16 Deep Socket.

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LIFT ELECTRICAL AND LAYOUT INFORMATION

UPON ARRIVAL OF LIFT

Immediately upon receipt of lift check for shipping damage. **IMPORTANT!** Have driver note any damage on Bill of Lading. Notify Ben Pearson Tubemaster Corporation of any damages. Ben Pearson will ship replacement parts to you and will file a claim to recover damages. We cannot file a claim with the carrier, however, unless damages are noted on Bill of Lading. If you fail to do so you may be charged for replacement parts.

ELECTRICAL DATA

1. Female Receptacle:

- | | |
|------------------|--|
| A. Single Phase: | 2 pole, 3 wire ground - 20 amp,
250 volt. N.E.M.A., #L6-20R. |
| B. Three Phase: | 3 pole, 4 wire ground - 20 amp,
480 volt. N.E.M.A., #L16-20R. |

2. Motor:

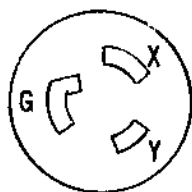
- | | |
|-----------------|------------------|
| A. Single Phase | 1.5 HP 230 volt. |
| B. Three Phase | 1.5 HP 230 volt. |

3. Recommended Breaker: 30 amp.

4. See layout for position of receptacle. NOTE: The motor is located about six (6) feet above the floor and has a two (2) foot cord with male plug.

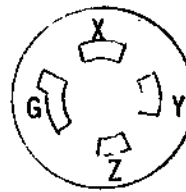
Figures 1a

SINGLE PHASE
2 Pole, 3 Wire



NEMA Reference:
Receptacle: L6-20R
Plug: L6-20P

THREE PHASE
3 Pole, 4 Wire



NEMA Reference
Receptacle: L16-20R
Plug: L16-20P

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LIFT LOCATION

Choose your installation site carefully. Keep in mind the location of the lift relative to the doorway and watch for obstructions overhead. The location of a power supply should be of prime consideration also.

Looking at the lift diagram you should be able to determine the optimum location of your lift (s). The layout shows recommended clearances and minimum clearances on all sides of the lift. The recommended clearances represent the ideal working room. As the physical dimensions of your shop may not allow the recommended clearances, minimum clearances are also shown.

If you are forced to use the minimum clearances you should be able to place any vehicle on the lift that weighs less than the maximum rating of the lift. Recommended dimensions must be adhered to if the overhead door is to be closed with vehicle on the lift.

GENERAL POINTS TO CONSIDER

The power unit can be mounted on the back side of either post. The power unit post can be either the left or right hand post when installed.

The minimum dimensions should be maintained when placing lifts against a wall or when placing two or more lifts side by side.

CAUTION!

SPECIFICATIONS OF CONCRETE

SPECIFICATIONS OF CONCRETE MUST BE ADHERED TO. FAILURE TO DO SO MAY RESULT IN LIFT AND/OR VEHICLE FALLING, ENDANGERING LIFE AND PROPERTY.

Floors should be level and concrete must be in good condition (3000 PSI minimum) steel reinforced per commercial practice with a minimum thickness of 4".

Pad must have a minimum thickness of 1 foot. Concrete must be in good condition (3000 PSI minimum) steel reinforced per commercial practices.

If pads only are used, it is recommended that the pads be tied together with a strip between them of steel reinforced concrete.

INSTALLATION DIMENSIONS

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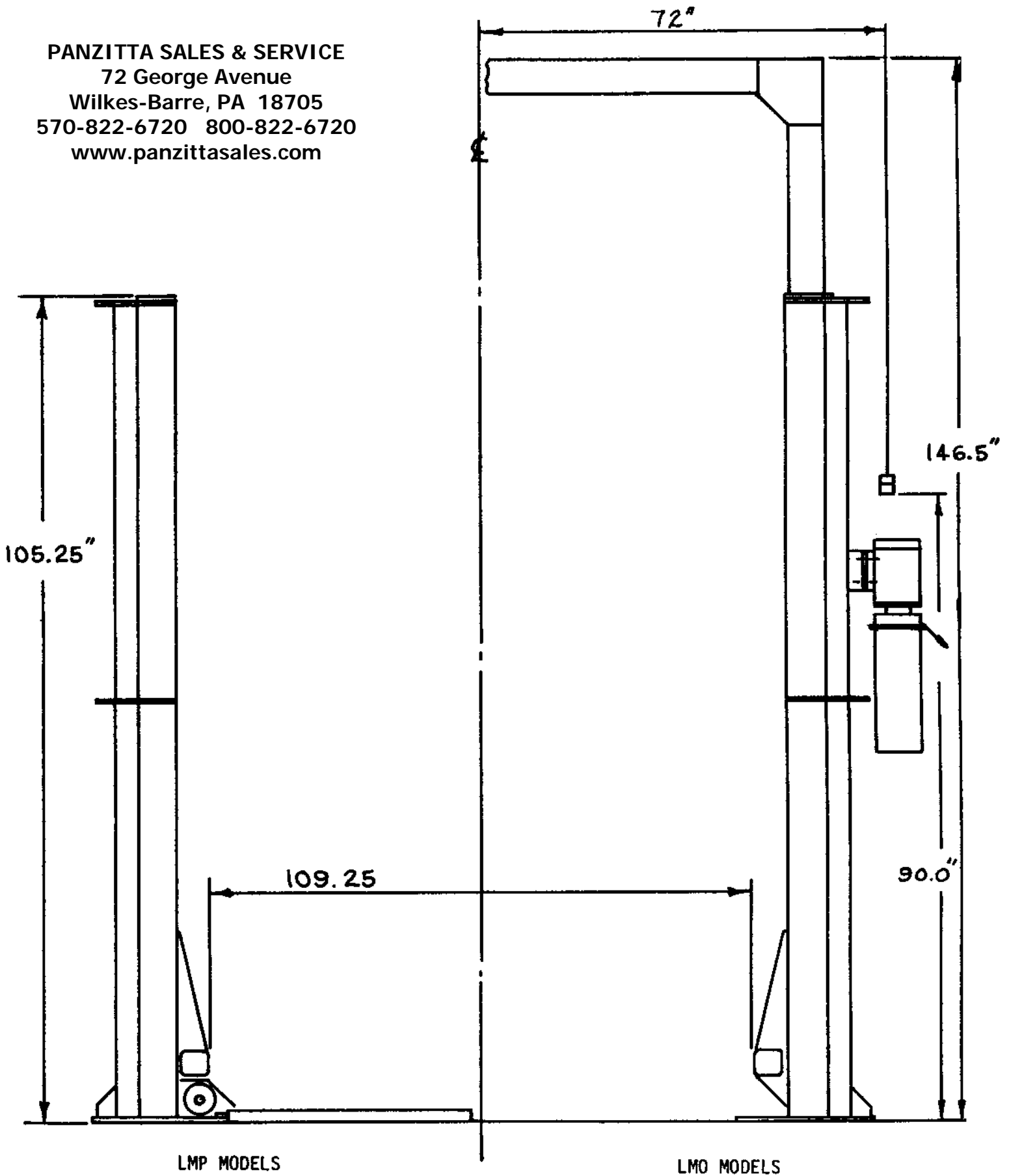
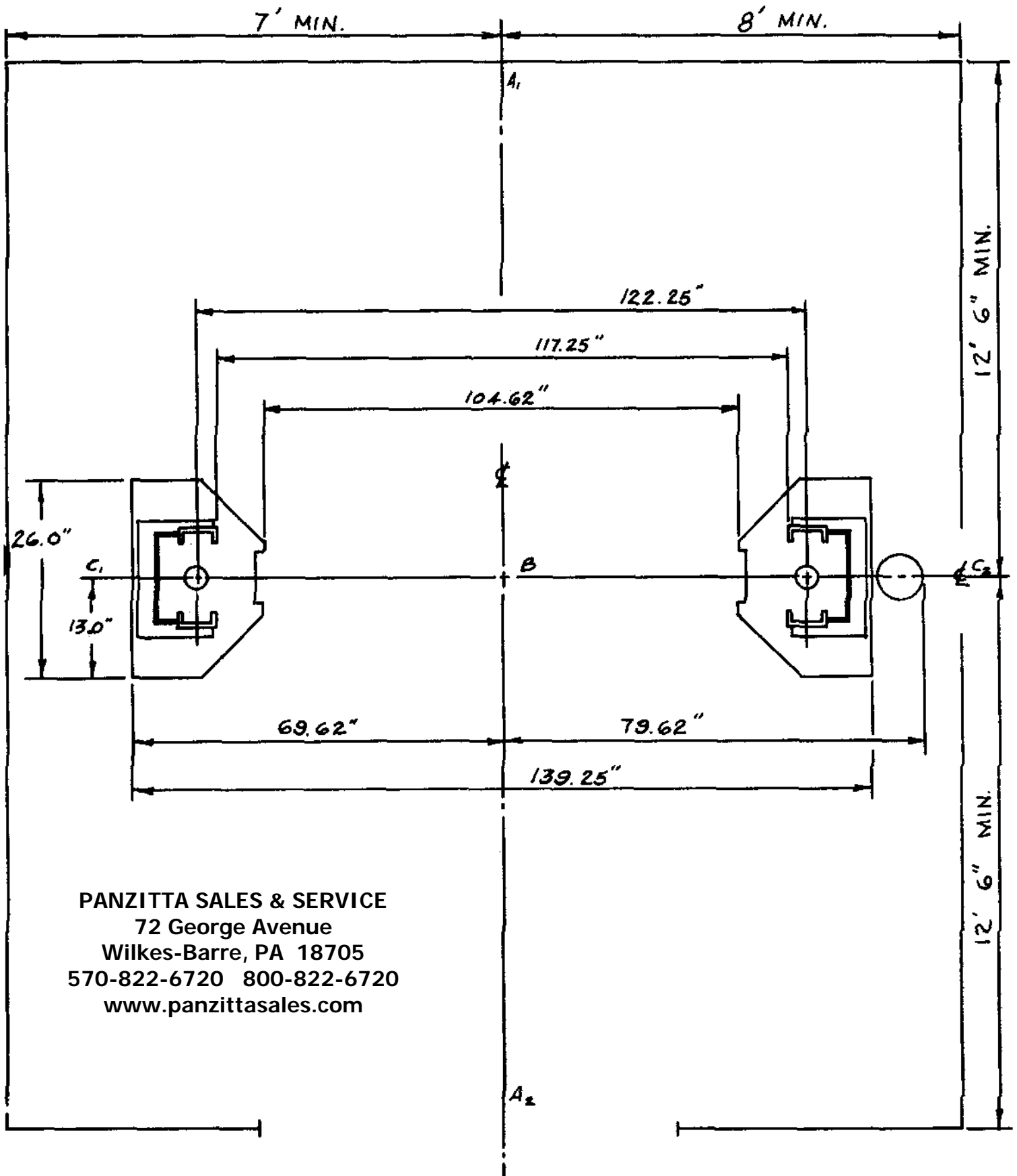


FIG. 2

INSTALLATION DIMENSIONS



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FIG. 3

LMP 7 & 9
CABLE HOOK UP

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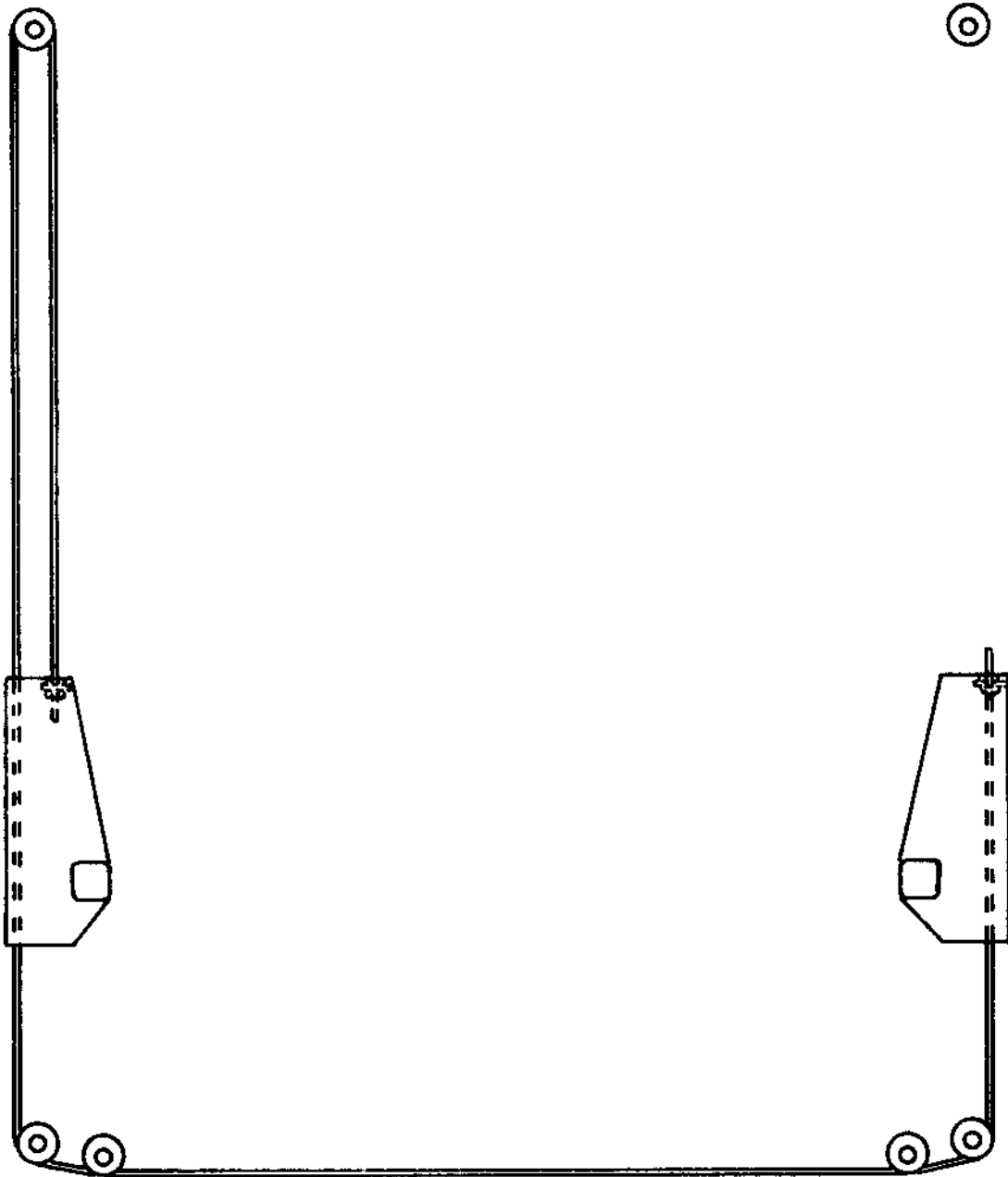


FIG. 15

LMP 7 & 9 INSTALLATION

1. Check height of building at lift site to determine if there is sufficient floor to ceiling height (See Fig. 2). The recommended minimum is 12 feet to clear tall vehicles. Keep in mind pipes, ductwork, overhead doors, etc.
2. Locate the centerline (A1, A2) of the site (See Fig. 3). This centerline may be determined by the location of doorways, building supports, work benches, or other obstacles.
3. Measure along the site centerline to locate the place where the lift centerline will cross point (B). Mark this centerline (C1, C2) perpendicular to the site centerline.
4. Locate the outside lift measurements (139 1/4"). This measurement is to the outside of the post base plate and does not include clearances beyond the back of the post base plate.
5. Locate the base post on the desired side and plumb the post using a level and add shims as required. THE POST MUST BE PLUMB! Failure to plumb post will result in improper operation and may void warranty.
6. Drill the anchor bolt holes using the post base as a template. (See Addendum A under "Drilling Procedure"). Drill the holes six inches deep or through concrete so they can be driven into the slab with a hammer and the holes patched if the lift is to be removed.
7. Install anchor bolts into base post and torque nuts to 50-60 FT-LBS.
8. Carefully measure distance to offside post (See Fig. 3).
9. Place offside post in position and maneuver it until you have 117 1/4" between mast channels measured near bottom of lift. Measure diagonally to square lift.
10. *Do not drill offside post holes at this time.*
11. Place the trough structure into position between the two posts.
12. Align and center holes in the trough structure with the extreme inward holes in the base post structure. The trough structure will fit into the cut out in the post base.
13. Install trough structure to power unit post base (the one anchored already) using two 3/8-16 x 3/4 inch long hex head screws, washers, and lockwashers. Tighten securely.
14. Align and center holes in opposite end of trough structure with those in post base. It may be necessary to reposition the offside post. Install with two 3/8-16 x 3/4 inch long hex head screws, washers, and lockwashers and tighten.
15. Do not install trough cover at this time.

LMP 7 & 9 INSTALLATION

16. Plumb offside post and using holes in base as a guide, drill holes into concrete as you did with base post. Clean dust from holes and install anchor bolts.

NOTE! DO NOT INSTALL LIFT TO AN ASPHALT OR SIMILAR UNSTABLE STRUCTURE!

17. Drive anchor bolts into concrete as far as possible. Tighten and torque nuts to 50-60 Ft. Lbs. Recheck post for plumbness and add shims if necessary.
18. Manually raise each carriage to about 12 inches from the floor. Both must be latched in holes same distance from post bottom.
19. Remove the two cable sheaves on each post that are near the trough by removing the nylock nuts and removing the hex head screws. (See figure 16).
20. Install cables as shown in figures 15 and 17. Adjust cable going to top of lift and back down into top of carriage in center of thread travel with jam nuts. Tighten top nut to remove slack and secure. Cable will fit into hole nearest center of lift.

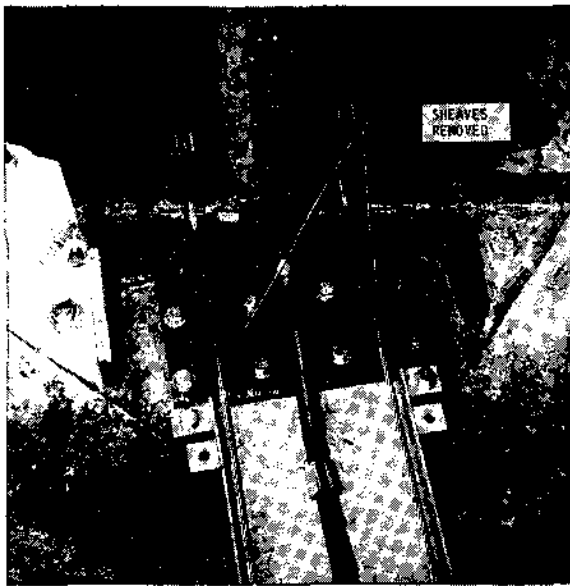


Fig. 16

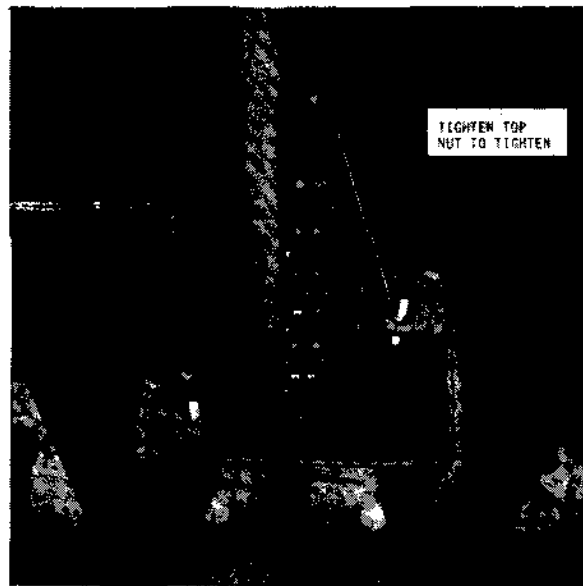


Fig. 17

21. All cables can be threaded through the cable sheaves without removing the sheaves except for the ones previously removed.
22. Run the cable installed to top of carriage around sheave in top of post and around sheave in bottom of post. Run through trough and around sheave in bottom of other post up to hole in rear of carriage.
23. Install one jam nut to the threaded end of the cable and run nut to the top of threads.
24. Place this end of cable through the hole in the top of the carriage (the one nearest back of post).

LMP 7 & 9 INSTALLATION

25. Install other jam nut to the end of the cable.
26. Repeat this procedure for the other cable.
27. Replace the four sheaves removed earlier and secure with hex head screws and nylock nuts previously removed. (See figure 18).
28. Tighten the top jam nut on each cable coming up through the carriages until both carriages are level and cables will deflect no more than 1" when pressure is applied by hand towards the back of the post.
29. Remove the cap nut from the elbow exposed at the rear of the power unit post. This elbow is attached to the cylinder with 1/8" NPT x 5" galvanized pipe nipple.
30. Install the power unit with motor up and reservoir down to the base post with four (4) 5/16-18 x 7/8" screws, nuts, and lockwashers.
31. Remove shipping plug and cap nut from the power unit tee. Install pipe reducer and pressure gauge as shown in fig. 19.
32. Install the short hydraulic tube between the tee in the power unit and the connector elbow as shown. (See figure 19). Inspect and clean all hydraulic tubes if necessary before installing. Hand tighten fittings.
33. Install the long hydraulic tube between the connector elbow and the elbow on the end of the pipe nipple in the back side of the power unit post's hydraulic cylinder.



Fig. 18

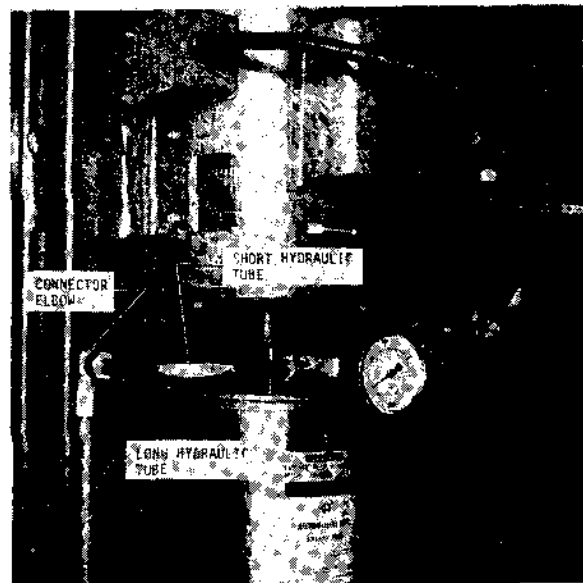


Fig. 19

34. Tighten all hydraulic tube fittings securely.
35. Remove the cap nut from the connector installed into each cylinder.

LMP 7 & 9 INSTALLATION

36. Attach the hydraulic hose between the two hydraulic connectors, one in each post. Tighten hose securely. (See fig. 20).

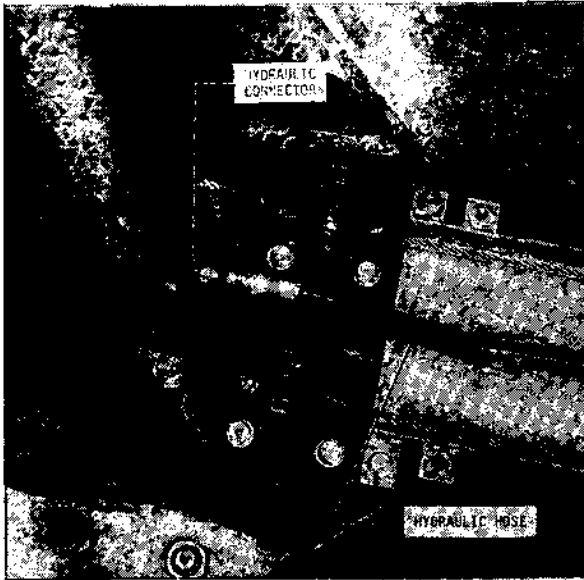


Fig. 20

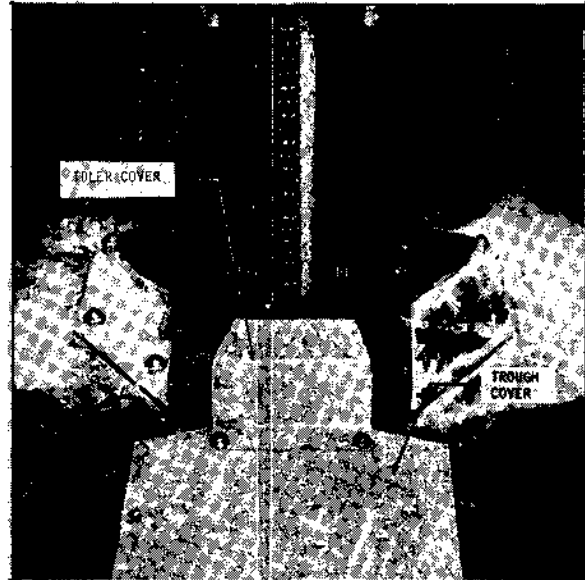


Fig. 21

37. Bend the tabs together that are located in the center of the trough to hold the hydraulic hose in place. (See fig. 20).
38. Install trough cover and idler covers with four (4) 3/8-16 x 1/2" hex head screws, washers, and lockwashers. (See fig. 21).
39. Tighten all screws, nuts, and hydraulic lines previously installed.
40. Plug power unit plug into 1Ø 230 VAC single phase power source. NOTE: mating female receptacle is furnished with the lift.
41. Operate the power unit and check height of carriages. Level if necessary by lowering carriages on latches and adjusting cables. NOTE: Cables must be tight and have equal tension. Carriages must be equal distance from post base plate.
42. Raise carriages to a comfortable working height and install all four lifting arms with extensions. NOTE: Pin in lifting must drop down and prevent extension from sliding off end of arm.
43. Place pads on each arm extension and place a long and short pad extension into the holes at post center on each side. (See fig. 22).
44. Install arm stabilizers to each arm by placing plated rod through hole in arm pivot. Tapped hole in the arm pivot must face outward.
45. Place one of the 3/4-16 x 5" screws through the pivot tube of the rod and install a 3/4-16" jam nut by running the nut as far as it will go down on screw. (See fig. 23).

LMP 7 & 9 INSTALLATION

46. Install this screw with pivot arm attached into tapped hole in end of carriage. Tighten until rod is level with arm and tighten jam nut to secure. Install "T-screw" into each pivot. (See fig. 23).

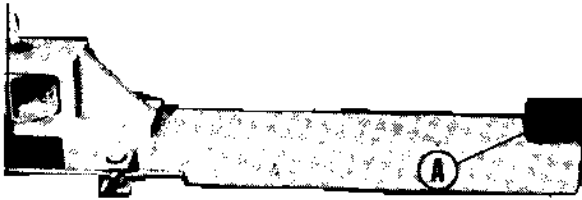


Fig. 22

A. Pad

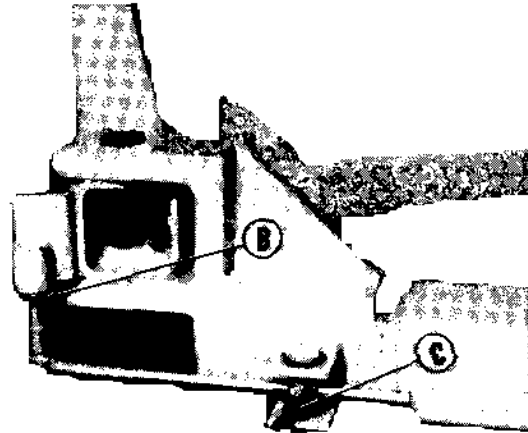


Fig. 23

A. 3/4-16NF x 5" Screw B. 3/4 Jam Nut
C. "T" Screw

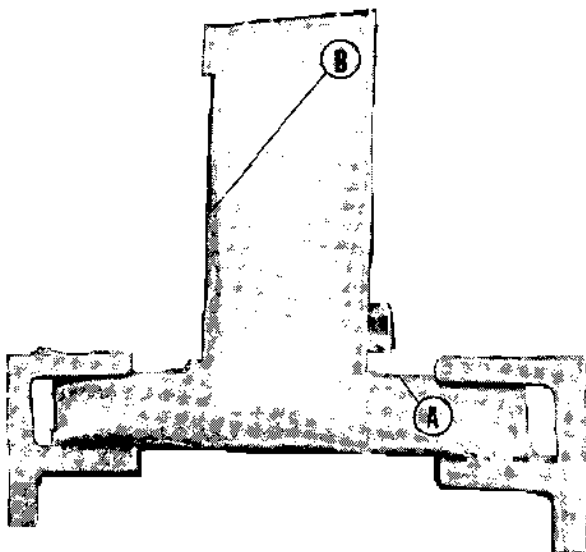


Fig. 24

A. Latch release lever.
B. Door protector strips.

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47. Raise lift to top of post and pull latch release lever on each carriage to lower lift. (See fig. 24).
48. Lower lift several feet and raise again. Safety latches must automatically reset when lift is raised.
49. Pull latches to lower lift. Note! If carriages are resting on safety latches it will be necessary to slightly raise lift to be able to pull the latch release lever.
50. Check for hydraulic leaks and tighten if necessary.