

LAS/LASO
INSTALLATION DIMENSIONS

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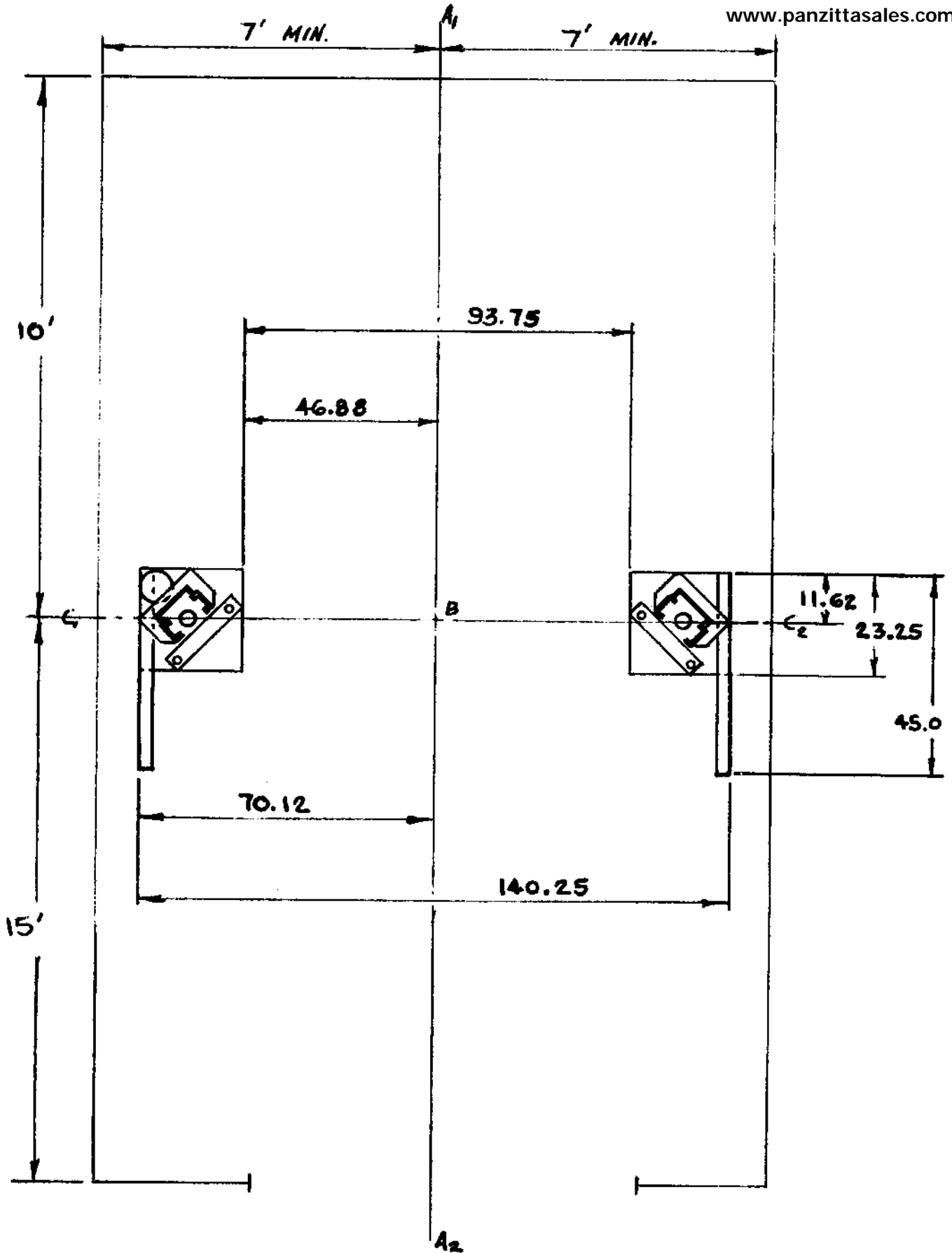


Fig. 44

LASO 7&9
CABLE HOOKUP

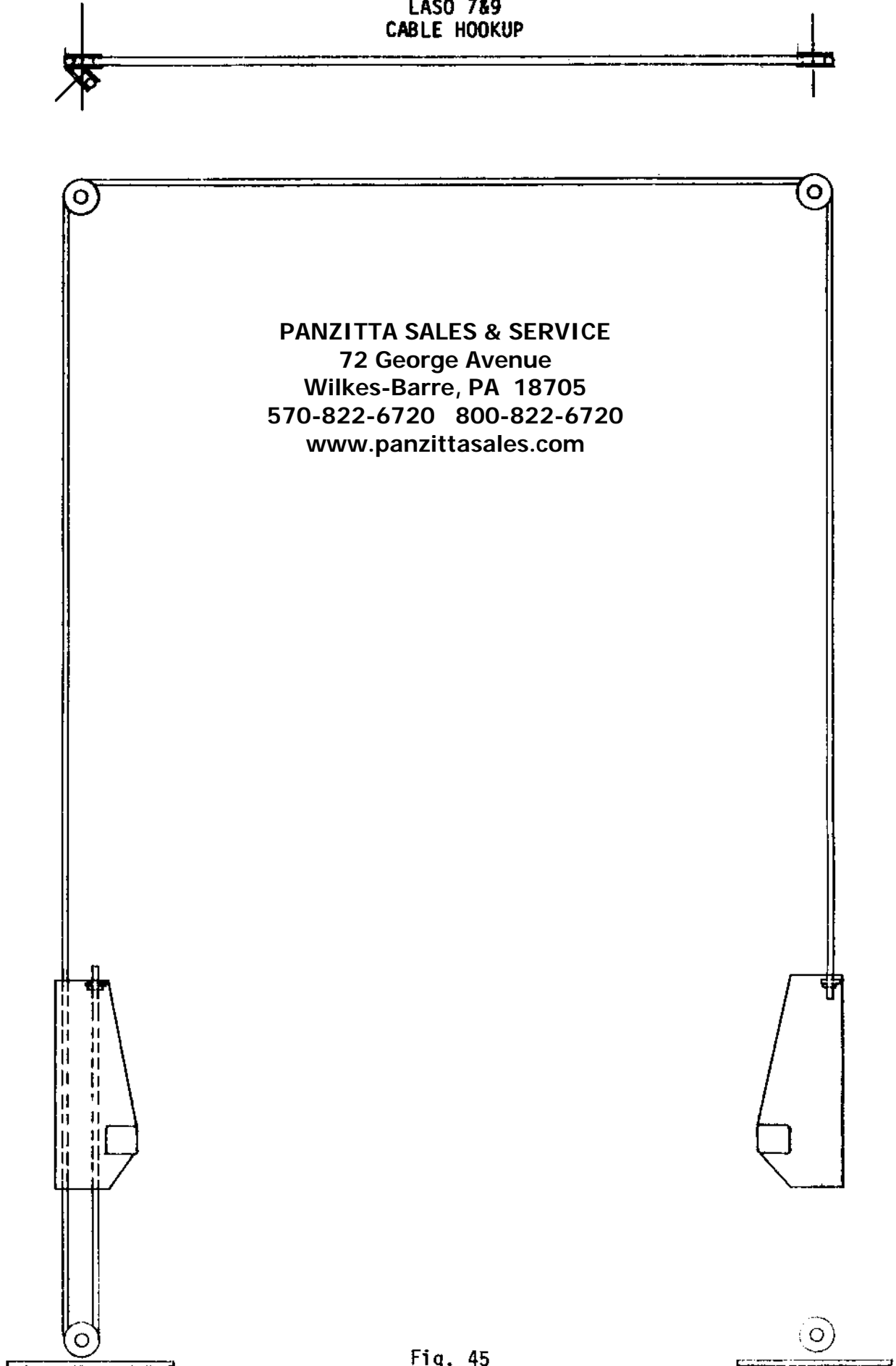


Fig. 45

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1. Check the height of the building at lift site to determine if there is sufficient floor to ceiling height (See Fig. 2). The absolute minimum is 146 1/2" to clear the LASO model lifts. Keep in mind pipes, ductwork, overhead doors, etc.
2. Locate the centerline (A1, A2) of the site (See Fig. 44) 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 inside lift measurements (93.75"). This measurement is to the inside 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 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.
- 6a. Place stabilizer channel over extreme outer set of holes so that channel will match holes in base and extend toward rear of car. Install anchor bolts into these holes and tighten.
7. There will be two additional holes to drill where the channel extends toward the cars rear. Using the channel as a template, drill these two holes in concrete.
- 7a. Install one half inch by three inch wide bar underneath the channel and install and torque anchor bolts to 50-60 FT-LBS.
8. Carefully measure distance to offside post (See Fig. 44).
9. Place offside postion and maneuver it until you have 93.75" between the post base plates. Measure diagonally to square lift.
10. Do not drill offside post holes at this time.
11. Assemble the two overhead upright structures to the horizontal upright channel with sixteen (16) 3/8-16 X 3/4" hex flange head self-locking screws and hex flange lock nuts. NOTE: The horizontal channel fits inside the upright structures.
12. Place equalizing cables over sheaves at this time. Square uprights with horizontal channel and tighten nuts.
13. Install the cable support to the two top center holes in the horizontal channel with the flanges turned down.

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14. Install the switch bracket to the horizontal channel with two (2) 5/16-18 X 3/4" FHSL screws and secure with FHSL nuts. *(See Fig. 46).

15. Install either LH or RH safety cut-off support angles to the horizontal channel with two (2) 5/16-18 X 3/4" HFHSC screws and nuts. (See Fig. 47).

16. Install one end of the long pipe through the slot in the angle installed above. Place other end of pipe through slot in opposite support angle and secure to horizontal channel with two (2) 5/16-18 X 3/4" HFHSL screws and nuts. (See Fig. 47).

* On three phase power units the screws will install directly into the tapped switch bracket.

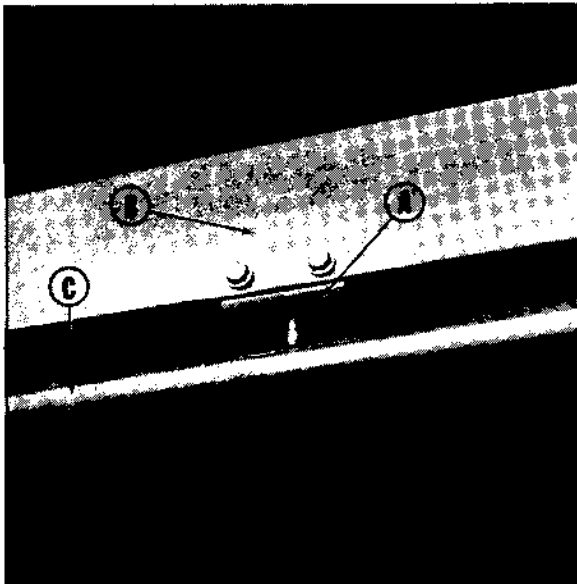


Fig. 46

A. Switch Bracket
B. Horizontal Channel
C. Pipe With Cover

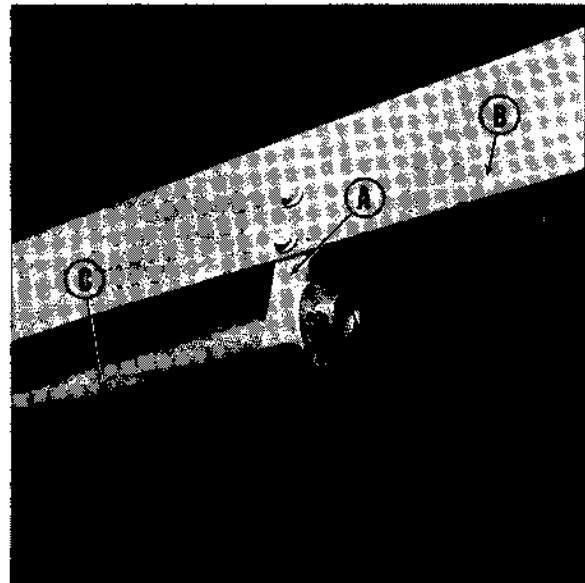


Fig. 47

A. RH Support Angle
B. Horizontal Channel
C. Pipe With Cover

17. The vinyl sleeve on the pipe will position the pipe with the two support angles.

18. Install a large washer to each end of pipe and secure it with screws, nuts and lockwashers. (See Fig. 47).



Fig. 48

19. Lift assembled overhead structure to the top of both posts and install with four(4) 1/2-13 X 1 1/4 hex screws, nuts, and lockwashers. NOTE! Use forklift or two (2) tall step ladders to place on top of post. (See Fig. 48).

20. Move offside post until both upright vertical members of the overhead structure are vertical and tighten screws and nuts holding posts to uprights.

21. 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. Repeat steps 6a, 7, and 7a.

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

22. Drive anchor bolts into concrete as far as possible and tighten and torque nuts to 50-60 FT-LBS. Recheck post for plumbness and add shims if necessary.

23. Manually raise each carriage to about 12 inches from the floor. Both must be latched in holes same distance from post bottom.

24. Install cables as shown in Figures 45 and 49. Adjust cable going up and over (one on right side of Fig. 49) in center of travel with jam nuts. Tighten top nut to remove slack. Cable will fit in hole nearest back of post.

25. As positioned from the driver's viewpoint as car is driven onto the lift, the lift's left, right, front, and rear are established.

26. Install the longer cable through the cable sheaves on the lift's rear side.

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27. Install shorter cable through cable sheaves on lift's front side.

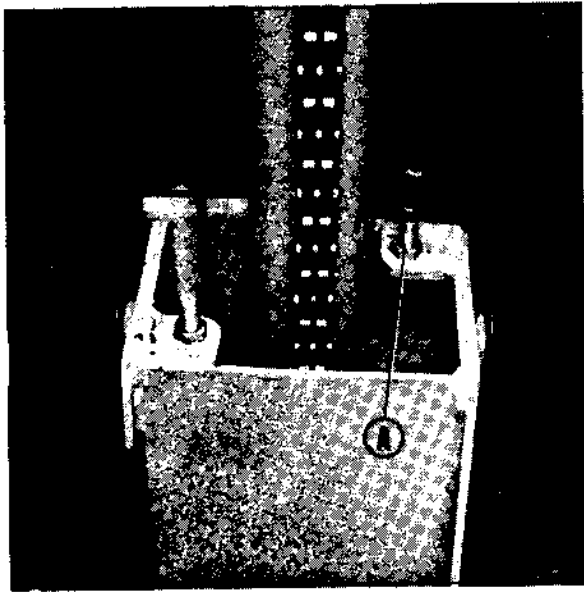


Fig. 49

A. Center cable with equal threads above and below bracket.

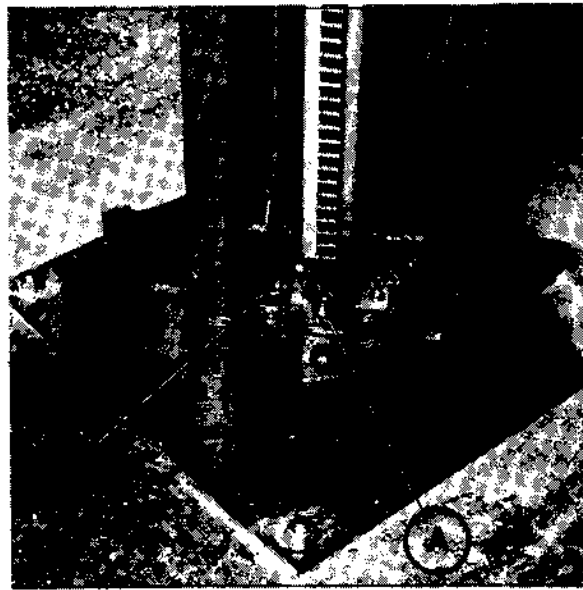


Fig. 50

A. ORB Plug
B. Idler Support, Lower.

28. Bring cable from other post down through carriage around bottom sheave and up to hole nearest inside of post. Run bottom jam nut all the way down on cable end and tighten top nut until cable is tight and will deflect no more than 1" when pressure is applied by hand toward back of post.

29. Tighten other cable until it has equal tension but does not raise either carriage.

29a. Remove the hex pipe plug from the hydraulic adapter installed into the rear of each post. It will be necessary to hold the adapter while removing the plug.

30. Apply a pipe compound to the 1/4 X 5" pipe nipple that has 90 degree hydraulic elbow attached and install into the hole in the hydraulic adapter at the rear of each post. Align the fitting so it is pointed upward.

31. Install the power unit with motor up and reservoir down to one of the posts with four (4) 5/16-18 X 7/8" screws, nuts, and lockwashers.

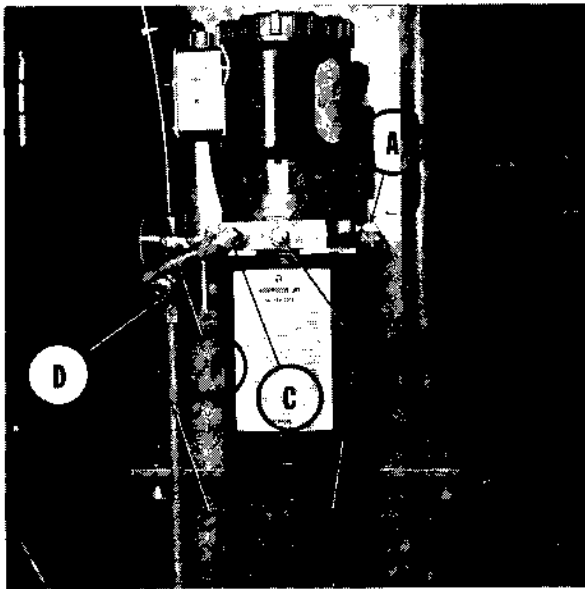
32. Remove shipping plugs from the power unit's ports. Install 90 degree ORB elbow into the left hand port as you face the power unit.

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33. Install ORB plug into the right hand port and install pressure gauge into the gauge port located on left hand side of power unit. (See Fig. 51) and page 26 Section II). Some power units require a coupling and reducing nipple to install the gauge.

34. Install the short hydraulic tube between the elbow in the power unit and the connector tee as shown. (See Fig. 51). Inspect and clean all hydraulic tubes if necessary before installing. Hand tighten fittings.

35. Install the middle length hydraulic tube to the lower half of the connector tee and to the elbow at the end of the pipe nipple which protrudes from the back of the power unit post's cylinder. Hand tighten fittings.



- A. Breather Cap
- B. ORB Plug
- C. 90 Degree Elbow
- D. Connector Tee
- E. Middle Length Tube
- F. Short Tube

Fig. 51

36. When all tubes are installed and fit properly, tighten securely with wrench while holding fitting.

37. Holding hydraulic fitting while tightening tube nut will orient tube in correct position and prevent leaks.

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38. On offside post install long hydraulic tube to elbow in bottom of cylinder.

39. Install angle support bracket to hole in top of post and secure with 1/2-13 X 1 1/4 hex screw, nut, and lockwasher. (See Fig. 52).

40. Attach 90 degree end of hose to top of this tube with 37 degree JIC connector.

41. Route hose to rear of horizontal channel and clamp to bottom inner screw with a hose clamp. (See Fig. 53). This screw must be removed to install this clamp.

42. Clamp hose to center hole in horizontal channel with 5/16-18NC X 3/4" HFHSL screw and nut.

43. Remove bottom inner screw from right rear horizontal channel and install hydraulic hose using one hose clamp. (See Fig. 53).

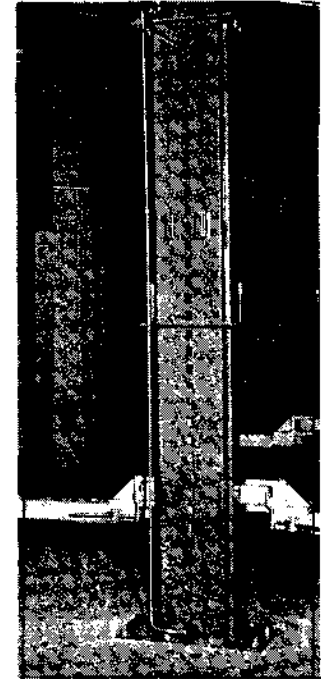


Fig. 52
A. Angle

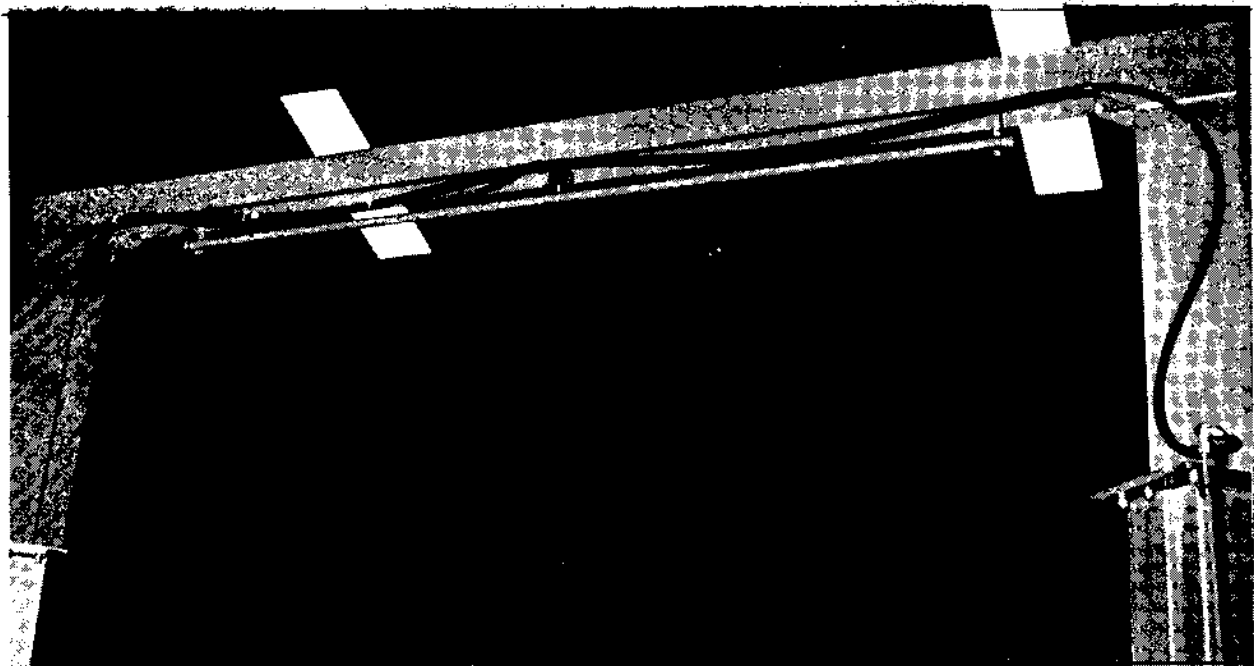


Fig. 53

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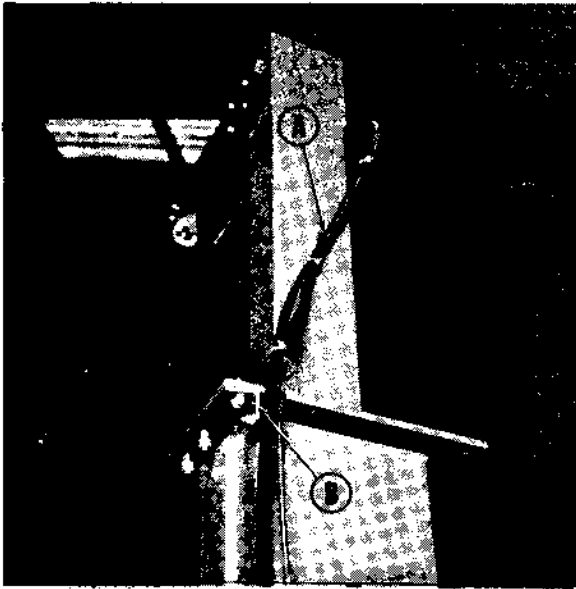


Fig. 54

A. Clamp

B. Angle

44. Run hose and clamp into hole one half way down vertical member (See Fig. 54).

45. Attach angle to hole in post top as before on opposite post. This attaches in hole nearest car's rear. Clamp hose to this angle with clamp, screw, nut, and lockwasher. (See Fig. 54).

46. Attach loose end of hose to "Tee" in hydraulic line that hooks to power unit. (See Fig. 51).

47. Install overtravel cut-off switch to angle bracket at bottom of horizontal channel. Position switch as near pipe as it can be positioned. Using plastic ties, clamp the electrical cable to the hydraulic hose previously installed. (See Figs. 46 and 48).

48. Plug power unit plug into 1 Phase, 230 VAC, single phase power source. NOTE: Mating female receptacle is furnished with the lift.

49. Operate the power unit and check height of carriages. Level if necessary by lowering carriages on latches. NOTE: Cables must be tight and have equal tension on each. Carriages must be equal distance from post base plate.

50. Raise carriages to a comfortable working height and install all four lifting arms with extensions. NOTE: Screw in bottom of lifting arm must be installed to prevent extension from sliding off end of arm.

51. The short lifting arms will go to the vehicle's front and the long arms will go to the vehicle's rear.

52. Place pads on each arm extension and place a long and short pad extension into the holes on each side at post's vertical center. (See Fig. 55) EXTENSIONS ARE FOR LEVELING AND STABILIZING VEHICLE ONLY! LOAD MUST BE BALANCED ON ARMS.

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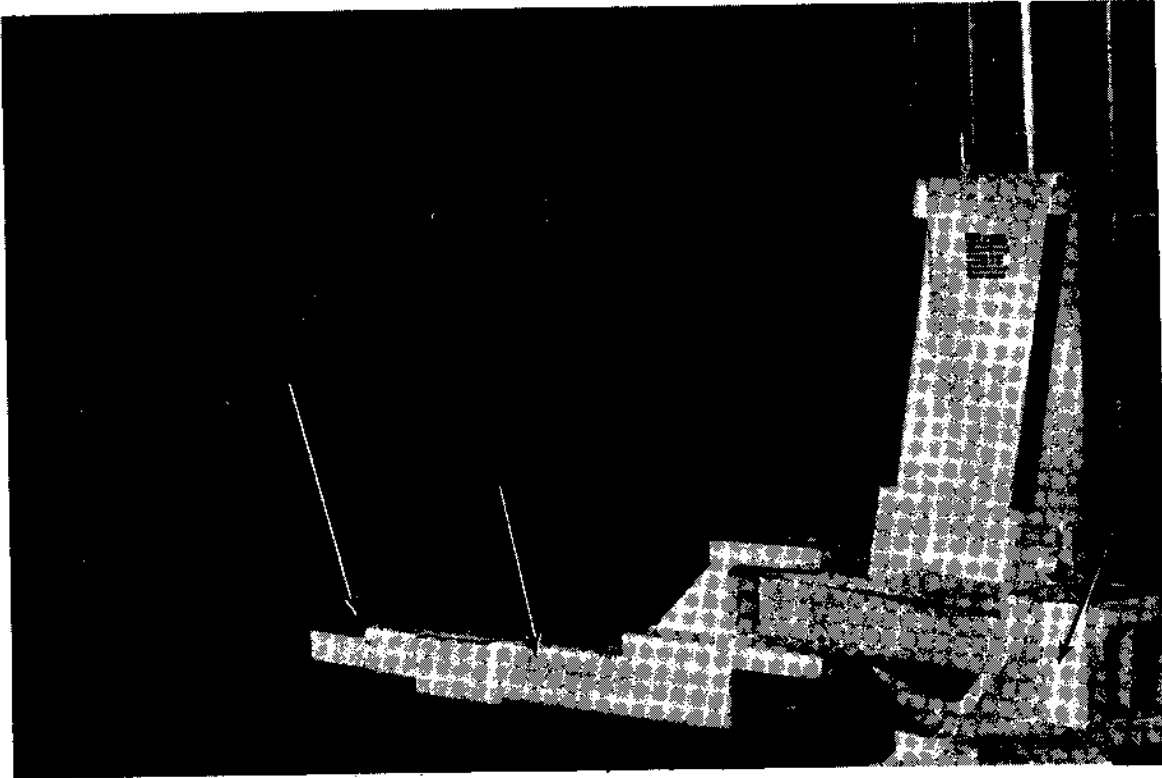
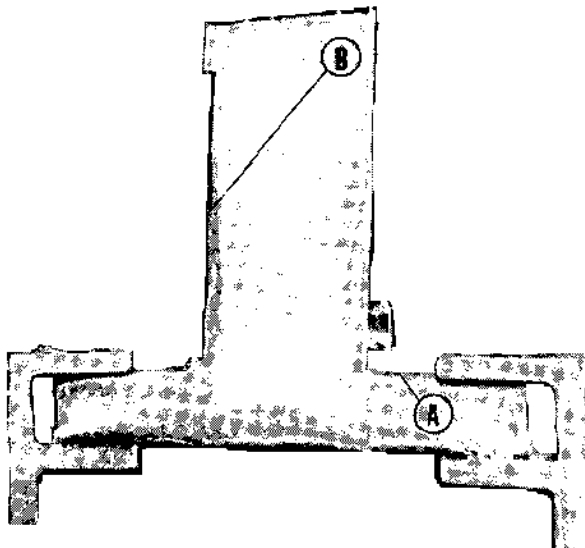


Fig. 55

- A. Short Arm Assembly
- B. Long Arm Assembly
- C. Pad

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- A. Latch Release Lever.
- B. Door Protector Strips.

Fig. 56

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53. Raise lift to top of post and pull latch release lever on each carriage to lower lift. (See Fig. 56).
54. Lower lift several feet and raise again. Safety latches must automatically reset when lift is raised.
55. 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.
56. Check for hydraulic leaks and tighten if necessary.
57. Using a broom or other long item push up on overtravel cut-off switch while raising lift. Lift should immediately stop. NOTE: If this does not stop lift, check pipe to see if pipe moves freely. See if it contacts the switch and the switch clicks when depressed.
58. If all of the above checks OK, unplug the power unit supply cord and check to see if the switch is wired to (C) common and (NC) normally closed. Correct is necessary.
59. If no fault can be found with the above items remove the cover on the power unit's motor conduit box. See electrical schematic in Parts Manual section to check wiring. If at fault, this should correct problem.
60. Install vinyl door protector strips to the two raw edges on each carriage. Just push on until it is seated. Do not place low enough to interfere with trip linkage. (See Fig. 56). (Vinyl strips may already be assembled on carriage).