

INSTALLATION AND OPERATION INSTRUCTIONS

PANZITTA SALES & SERVICE

72 George Avenue

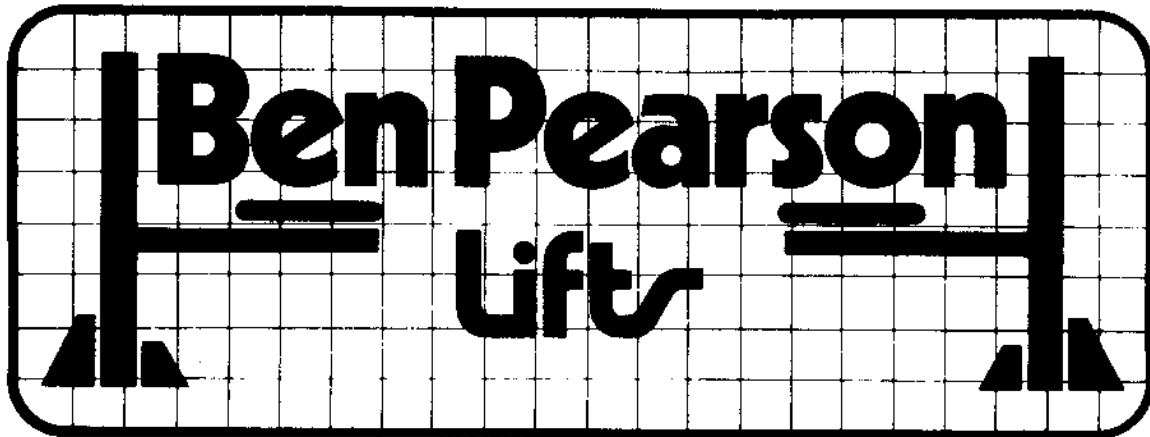
Wilkes-Barre, PA 18705

570-822-6720 800-822-6720

www.panzittasales.com

FOR

FOUR POST LIFTS



IMPORTANT: NOTE ANY DAMAGE OR SHORTAGE ON BILL OF LADING AND NOTIFY BEN PEARSON TUBEMASTER CORP. SERVICE DEPARTMENT.



Ben Pearson Tubemaster Corporation
P. O. Box 5668 • Pine Bluff, Arkansas 71611

1-800-643-1346

#83489

4 POST INSTALL NS.max

LOCATION

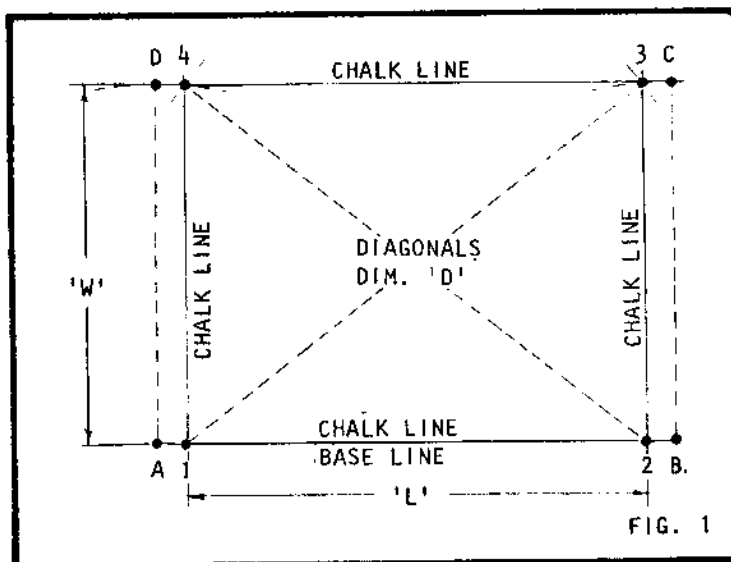
1. Check area where lift is to be located for overhead clearance and unobstructed for driving on and off the lift. Ceiling clearances should be (dim. G) plus tallest vehicle you intend to service. (See fig. 2).
2. Check for location of electrical supply and the location of power unit.
3. **CAUTION! SPECIFICATION OF CONCRETE MUST BE ADHERED TO. FAILURE TO DO SO MAY RESULT IN LIFT AND/OR VEHICLE FALLING, ENDANGERING LIFE AND PROPERTY. DO NOT INSTALL LIFT TO ASPHALT OR SIMILAR SURFACE WITHOUT USING PADS PER BELOW MENTIONED.**
4. Floors should be level and must be in good condition, steel reinforced 4 inch thick (3000 PSI) minimum per commercial practice.
5. If pads are required, they must be two feet square steel reinforced by one foot deep. Concrete should be (3000 PSI) minimum. (See Fig. 2).

INSTALLATION

1. Once the location is determined, use a carpenter's chalk line and establish a base line (A-B) to locate one side of the lift. (See Fig. 1).

2. For width of the specific lift being installed, refer to Fig. 2., Dim. 'W'. Layout chalk line (C-D). The resulting two parallel chalk lines represent to outside of the base of the post.

3. Determine where the end of the lift is to be. Ramps will overhang approximately 18 inches (except models 22 & 30 - 23"). Locate the end point (1) on the base line. Measure distance 'L' on base chalk line (See Fig. 2). Mark this point '2'.



4. Measure diagonally from points 1 and 2 across (Dim. 'D, Fig., 2) and mark points 3 and 4. Lay a chalk line between points 1-4 and 2-3.

5. These four lines locate the four outside corners of the lift.

6. The left hand side as you approach the lift (See Fig. 2) will be where the base post, top rail, and power unit will be located, except on models LMT 22 and LMT 30. On these models they are located on the right hand side.

7. Lay front base post with power unit mounting plate on the floor.

8. Assemble the top rail to the front post with cylinder end nearest post, with two 1/2" x 1 3/4" long hex bolts, flat washers, and hex whiz nuts. Assemble rear base post as above.

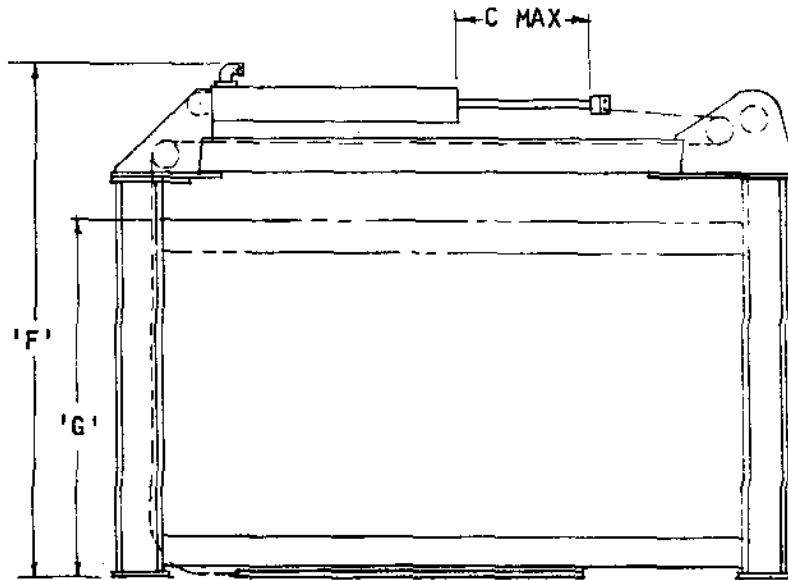
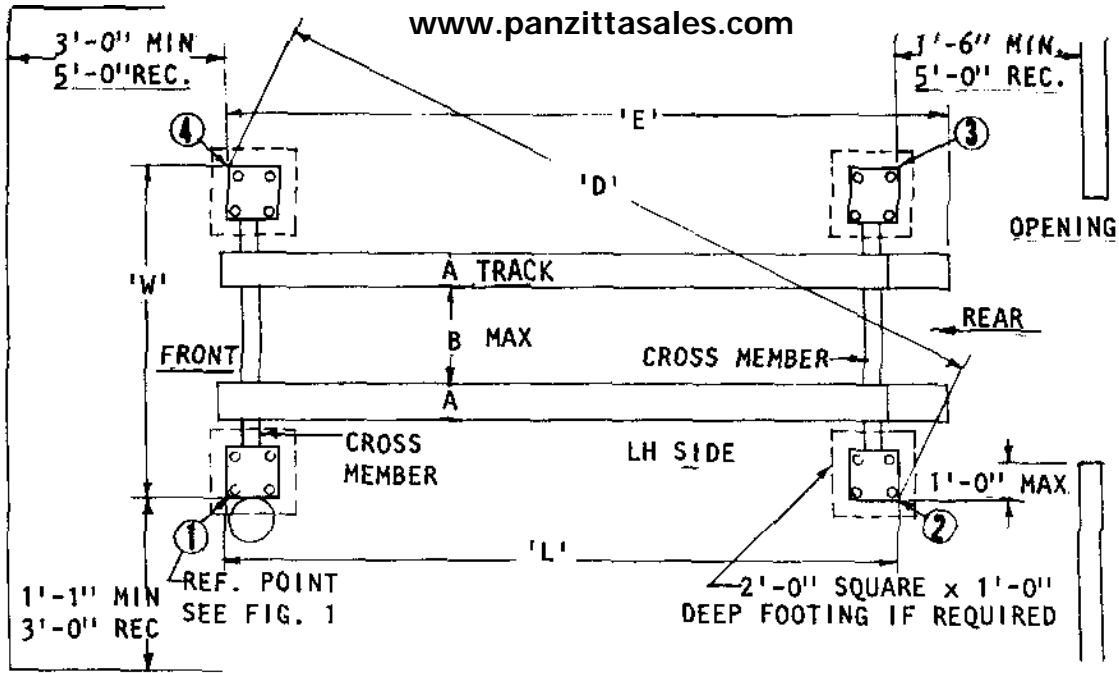


FIG. 2

LIFT MODEL DIMENSION	'W'	'L'	'D'	'E'	'F'	'G'	A	B	C
SST 9	9'-4"	15'-1"	17'-8 7/8"	15'-1"	8'-1 7/8"	6'-6 1/8"	1'-2 1/8"	3'-11 9/16"	6'-0"
LHT 9 SST 12	10'-4"	15'-1"	18'-3 3/8"	16'-7 1/8"	8'-1 7/8"	6'-6 1/8"	1'-2 1/8"	4'-11 9/16"	6'-0"
LHM 12	10'-4"	17'-1"	19'-11 5/8"	18'-7 1/8"	8'-1 7/8"	6'-6 1/8"	1'-2 1/8"	4'-11 9/16"	6'-0"
LMT 12	11'-4"	17'-1"	20'-6"	18'-7 1/8"	8'-1 7/8"	6'-6 1/8"	1'-2 1/8"	5'-5 9/16"	6'-0"
LHA 9	10'-4"	15'-1"	18'-3 3/8"	16'-7 1/8"	8'-1 7/8"	6'-6 5/16"	1'-6"	3'-4"	6'-0"
LHA 12	11'-4"	17'-1"	20'-6"	18'-7 1/8"	8'-1 7/8"	6'-6 5/16"	1'-6"	3'-4"	6'-0"
LHT 22 - LMT 3D	11'-7 9/32"	21'-0"	24'-0"	22'-8"	7'-3 9/16"	5'-4 3/4"	2'-0"	5'-2 5/8"	4'-9"

9. Lift assembled post and top rail to an upright position. Locate post base into corners where the chalk lines intersect points 1 and 2.

10. Center slots in top rail assembly with slots in top pad of base post and tighten nuts.

11. Check front and rear base post position with dimensions and chalk lines. (See Fig. 2). Adjust if necessary.

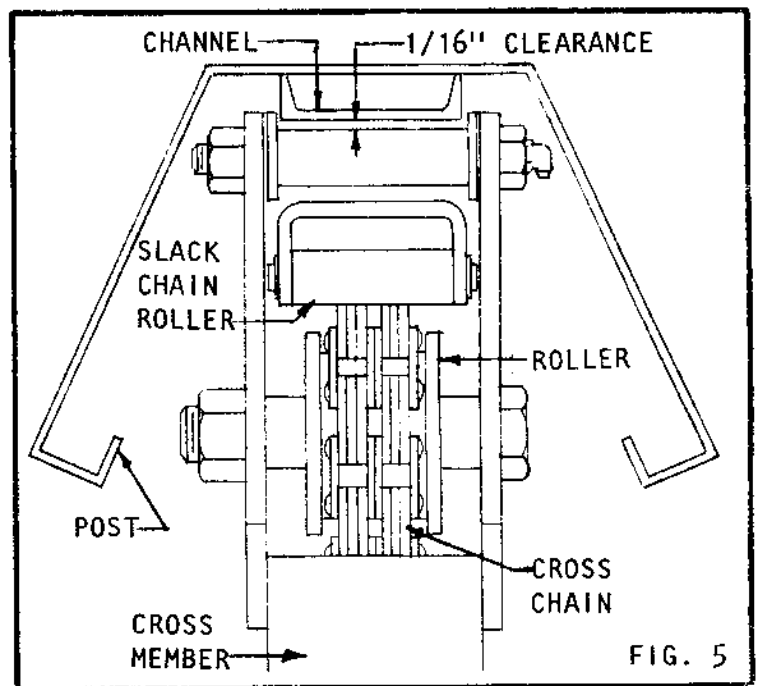
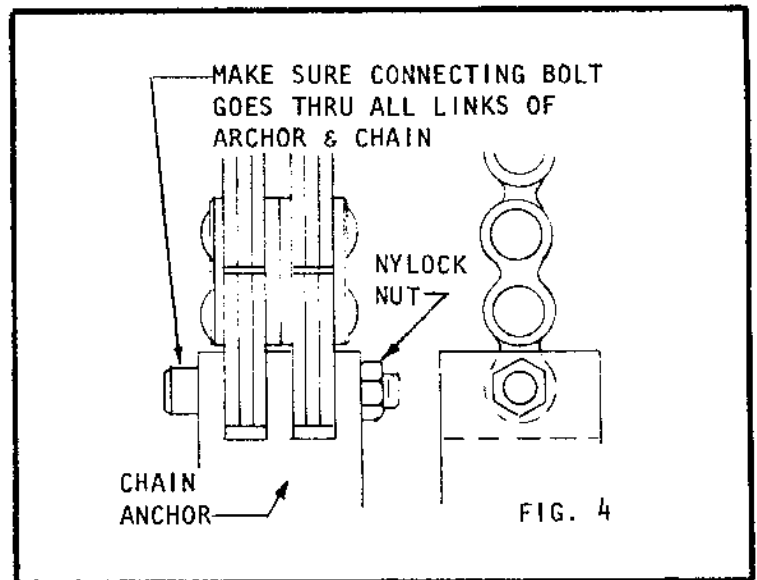
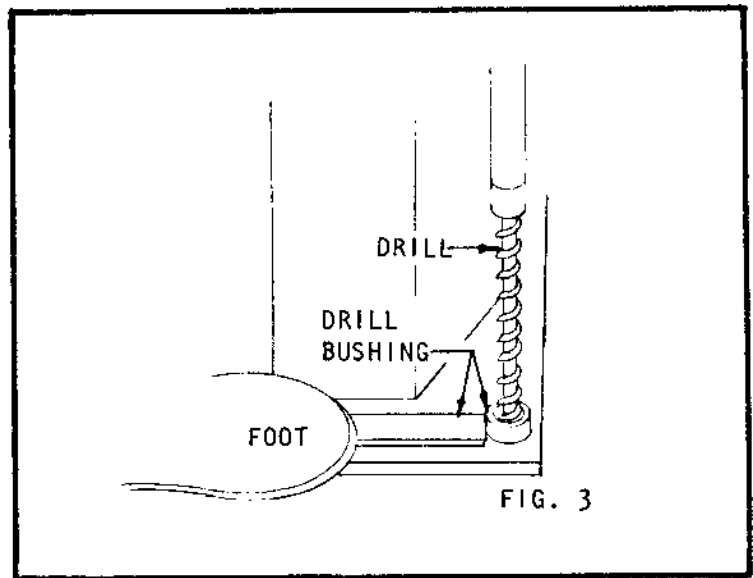
12. On the front base post, place the drill bushing provided into one of the outer holes and drill a 3/4" hole into the concrete at least 4" deep. (See Fig. 3). Clean concrete dust from hole. Screw nut on the anchor bolt until 1/4" of threads protrude above the nut. Place flat washer on anchor bolt and install in hole until fully seated. Center hole in base plate on anchor bolt and tighten nut. This will prevent the post from moving while drilling the other holes. Repeat the above for remaining three holes.

13. Using a level, plumb post so that it is plumb. Add shims if necessary. Tighten anchor bolts to 50-60 foot pounds and recheck plumb.

14. After anchoring and plumbing of front base post, square rear base post to chalk lines. The mounting pad may vary from the measured dimensions slightly. However, it is more important that the post be plumb and parallel with each other than holding exact dimensions. Plumb and install anchor bolts.

15. **IMPORTANT: DO NOT DRILL OR SET OFFSIDE POST ANCHOR BOLTS AT THIS TIME.**

16. Lay cross members in place. With fish wire, pull chain connector link from offside to base side. Leave one foot of chain exposed on anchor side. (See Fig. 2).



NOTE: On all models except LMT 22 and LMT 30, chain must be threaded through slack chain device on offside (See Fig. 5).

17. Place front cross member in position at base post. Install chain to anchor welded in bottom of base post. (See Fig. 4).

18. Thread chain over roller. (See Fig. 5). Secure chain to chain anchor on base post. (See Fig. 4). Pull slack chain to offside. Make sure chain is free. (On all models except LMT 22 and LMT 30), slide cross member towards the base post until the roller in the cross member contacts the channel inside the column. Leave approximately 1/16" clearance between the roller and channel. (See Fig. 5).

19. Slide the cross member snugly against the chain anchor on the LMT 22 and LMT 30.

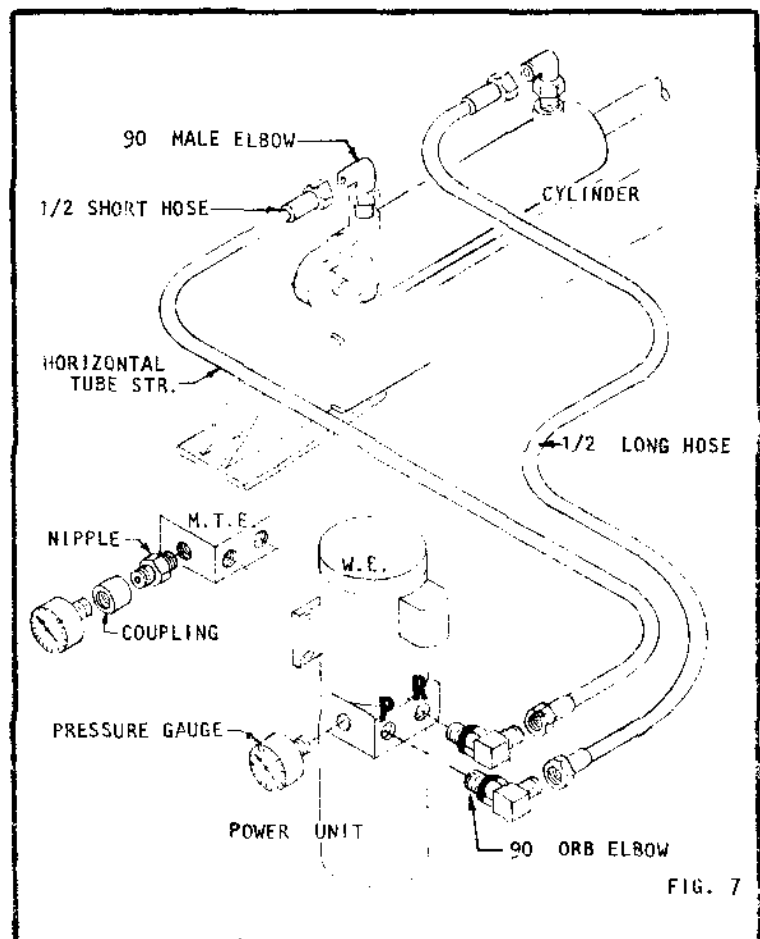
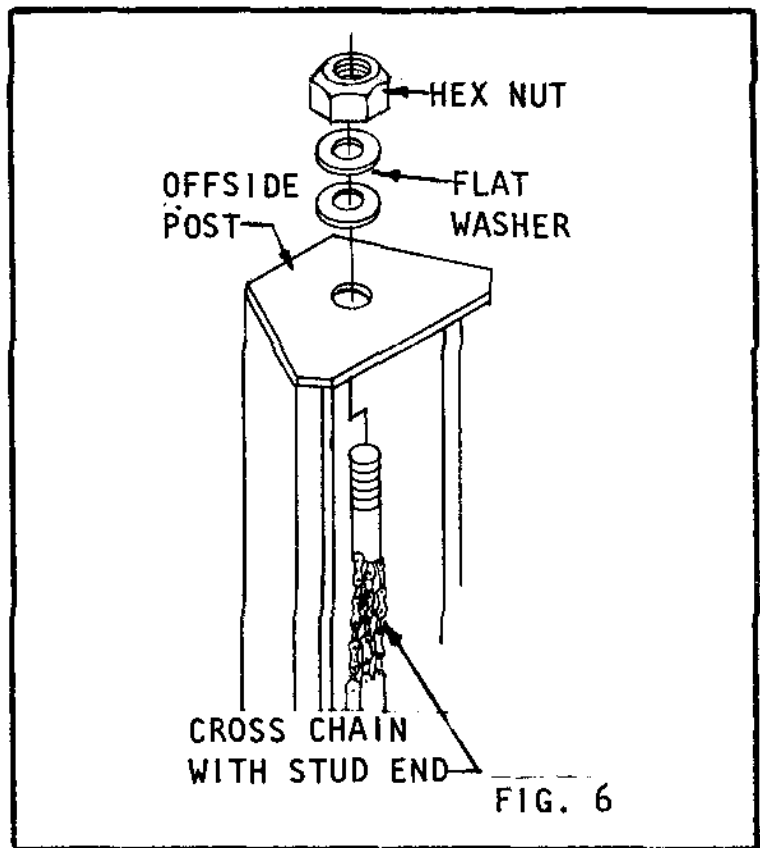
20. Repeat steps 16 through 18 for the rear cross member.

21. Position offside post to laid out chalk lines on floor. It will be necessary to raise the end of the cross member to slide the post into place. The roller should have 1/16" clearance between the roller and the channel inside the post. (See Fig. 5).

22. Recheck the 1/16" clearance on base post. Adjust cross member if necessary. Center cross member tube with post channel on each side. DO NOT exceed floor layout dimensions. Repeat the above for setting rear post. Square post to chalk lines.

23. Using drill bushing (See Fig. 3), drill 3/4" holes into the concrete using offside post as a template. Drill at least 4 inches deep and install anchor bolts into the holes.

24. Plumb offside post by adding shims as required. Tighten



anchor bolts to 50-60 foot pounds and check post plumbness.

25. Install chain with stud end as shown in fig. 6. Tighten to where stud is flush with nut as a minimum. Additional flat washers may be required to level lift.

26. Repeat for rear cross member.

POWER UNIT INSTALLATION

27. Install power unit on front base post with (4) 5/16" x 7/8" lg. hex cap screws, lock washers and nuts. Install with motor up and reservoir down.

28. Remove the plastic or metal shipping plugs from power unit ports. Install 90 degree elbows and pressure gauge as shown in Fig. 7. Use a pipe sealant on all pipe threads. Tighten gauge until it is oriented correctly. NOTE: On LMT 22 & 30 these fittings are already installed.

29. The cylinder must be fully extended to connect chains. This can be done by connecting hoses opposite than shown in fig. 7.

30. Fill power unit's reservoir with (4) gallons of a quality 15AW weight hydraulic oil. The LMT 22 and LMT 30 require approximately 8 gal. If power unit is equipped with a vent screw in the top of the reservoir, remove it before adding oil. Fill reservoir until it is full or oil flows from vent hole.

31. Tighten all fittings and hoses to prevent leaks.

32. Connect the hydraulic lines between power unit and cylinder as shown in Fig. 7.

33. Fully extend the hydraulic cylinder. On all models (except the LMT 22 and LMT 30), the cylinder should extend 72". On the LMT 22 and LMT 30, the cylinder will extend 57". See Fig. 2.

34. From the rear base post end of the top rail insert a pull wire through the inside of the tube and down through the front base post. (See Fig. 2). Insert wire between rollers. Fasten the wire to the longest piece of chain. NOTE: The LMT 22 and LMT 30 use two sets of chains through the top tube.

35. Pull chain(s) through the tube until free end of chain(s) is just starting to clear the ground.

36. Fasten free end of chain to connector on front cross member anchor with 5/16" x 2" lg. socket head cap screw.* (See Fig. 8). Make sure cap screw goes through all links of chain and anchor.

***CAUTION! IF IT EVER BECOMES NECESSARY TO REPLACE THIS BOLT, USE ONLY SPECIAL HIGH STRENGTH ALLOY BOLTS PROVIDED BY BEN PEARSON TUBEMASTER. FAILURE TO DO SO MAY RESULT IN LIFT FALLING, ENDANGERING LIFE AND PROPERTY.**

37. On all models except LMT 22 and LMT 30, position slack chain structure to inside of post with roller touching chain as shown in Fig. 5.

38. Connect long chain(s) to cylinder in lower hole of cylinder adapter. Use a 5/16" x 2 1/2" lg. special socket head cap screw* and nylock nut. (See Fig. 9).

39. Install short wide chain(s) to top hole of cylinder adapter. Use a 5/16" x 2 1/2" lg. special socket head cap screw* and nylock nut provided. (See Fig. 9).

40. NOTE: Use a 5/16" x 4 1/2" lg. special socket head cap screw* on LMT 22 and 5/16" x 5 1/4" long special socket head cap screw * on the LMT 30.

*See Caution.

41. Left hand runway is stationary. Install pivot tube to this runway. Place runway onto cross members with tube side towards base post. Runway will bolt to the slotted angles welded to the cross members.

42. Install handle to front of pivot tube and pivot structure to rear of pivot tube. Secure both with bolts, lock washers and nuts.

43. For installation of LMA Alignment track see steps 61-67.

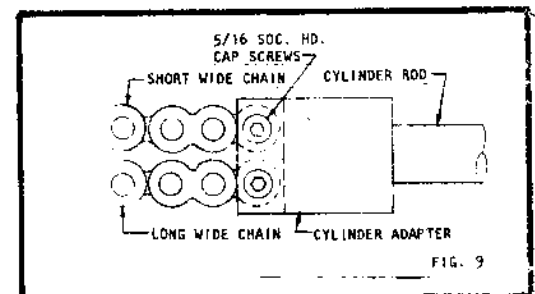
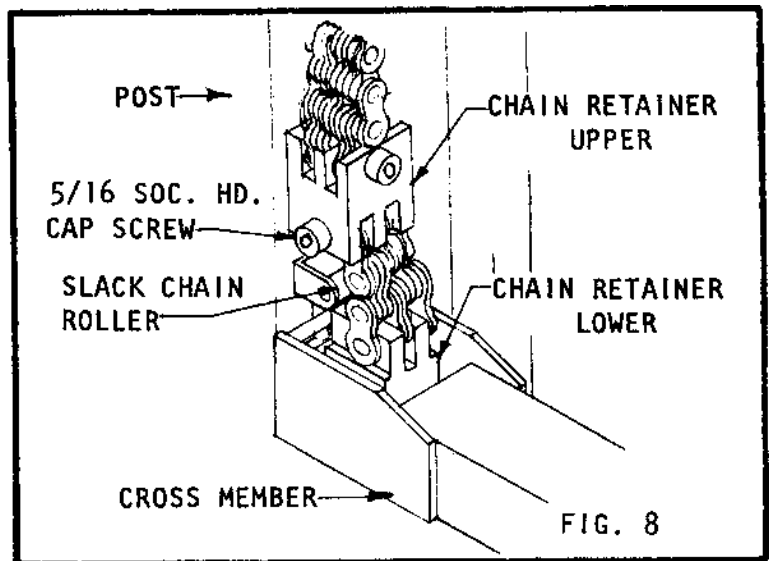
44. On LMT 22 and LMT 30, place runways equal distance from cross member center line at desired tread width. Both runways will be identical and will not have a pivot tube.

45. Place right hand runway approximately one foot from offside post. Raise lift approximately 3 feet from floor and lower until latches rest in slots. On both front and rear base post the cross members should be an equal distance from the top of the post plate. If it is necessary to raise the cross member on the offside post to obtain this equal dimension. Tighten the nut on the top of the post. If base post adjustment is necessary, wait until later to adjust.

46. Install headed pivot pins into handle assembly as shown in Figs. 10 and 11. Install short linkage through trip release bracket into headed pin. With cross tubes resting on latches, adjust short linkage until it will just go on the latch release rod. Repeat process for the rear short linkage. Raise lift until the latches are free and lock handle into lowering position. Pull latch fully inward if not already in that position. There should be no slot clearance between latch and linkage.

47. Install the long linkage on the front and rear in the same manner.

48. **IMPORTANT:** All latches must rest on latch stops in post that are the same height to properly adjust linkage. (LMT22 & 30 See Fig. 12).



49. Install trip release linkage between pivot handle upper hole and trip release bracket (See Fig. 11).

50. Raise lift so trip latches can be released. Rotate handle counter-clockwise down and release latches. Trip release linkage will slide to the left and lock into place in the bottom of the slot. If linkage was properly adjusted, the lift can now be lowered without the latches catching.

51. Raise lift to mid travel. Check to see if cross members are equal distance from post base at front and rear. Adjust if necessary.

52. Lower the lift to the floor with latches released. The trip release must trip and release the latches so they will lock when the lift is raised. The adjusting nut can be adjusted up or down to obtain the proper length. With the trip locked in the lowering position the adjusting nut must extend down past the cross member. Secure with jam nut.

53. Install extension spring between handle assembly and stud on cross tube (See Fig. 11).

54. **NOTE:** All models except LMT 22 and LMT 30 -- Grease slotted channel in rear post generously with a heavy weight grease and maintain grease on this surface. Grease lube fittings on bolt, located at extreme top of each cross tube, weekly to provide lubrication to roller that contacts slotted channel.

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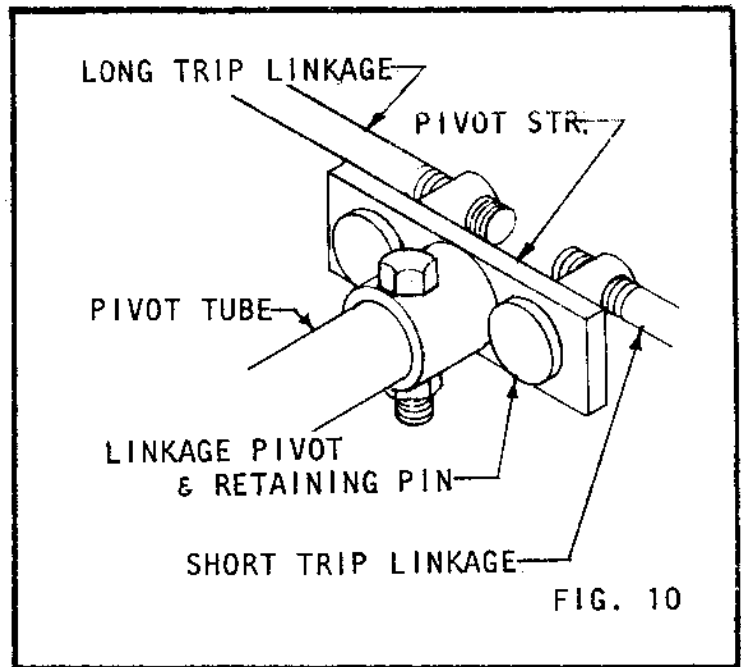


FIG. 10

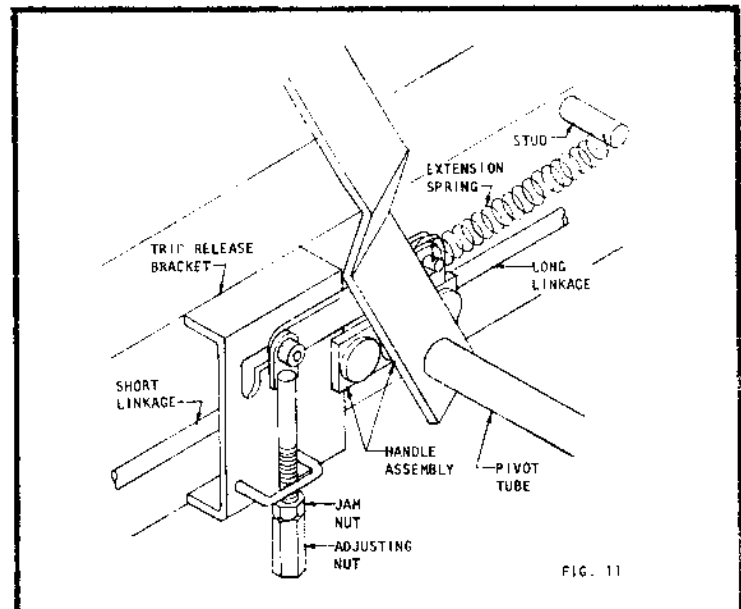


FIG. 11

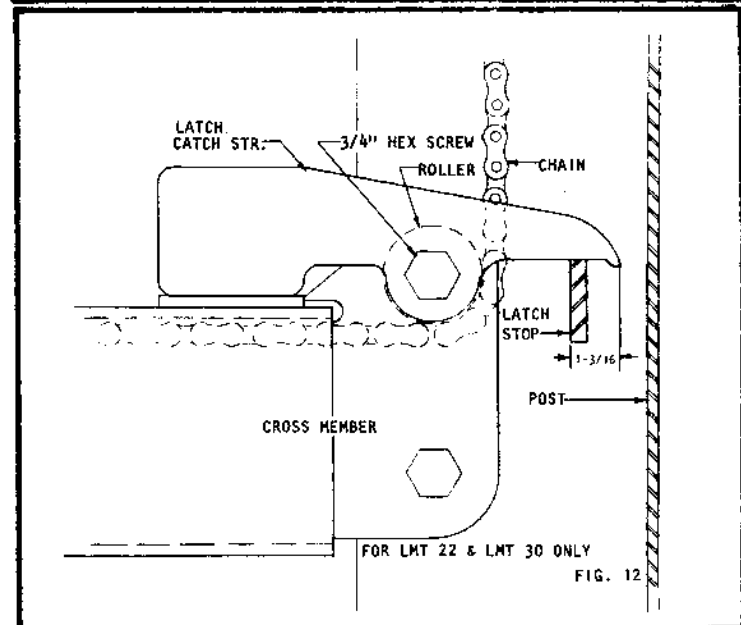


FIG. 12

ALIGNMENT OF OFFSIDE POST -- MODELS LMT 22 AND LMT 30

55. Raise and lower lift, aligning offside post so cross members are centered in post. Lower lift until three feet from the floor. Plumb post, drill holes and install anchor bolts. **DO NOT TIGHTEN NUTS AT THIS TIME.**

56. Maintain equal clearance between pivot latch and latch stop on all four post. (See Fig. 12).

57. Raise lift until pivot latches pass first stop. Lower lift until pivot latches just clear stops. If floor is not level, it may be necessary to shim base post that is lower. Loosen anchor bolts, shim to correct height, replumb and retighten anchor bolts.

58. Adjust nut on top of front offside post until both main and offside latches clear stops by the same amount. Repeat for other end of lift.

59. Check plumbness of offside post and tighten anchor bolts to 50-60 foot pounds.

60. Trip bracket must remain UP and not fall while lowering lift. **CAUTION!** Trip brackets reset as lift goes past each set of stops when raising lift. If they do not, and if unable to correct the problem, call Ben Pearson Tubemaster Service Department.

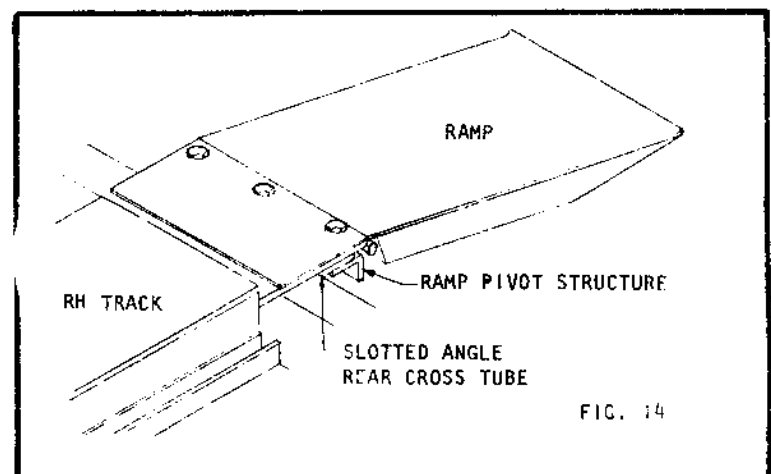
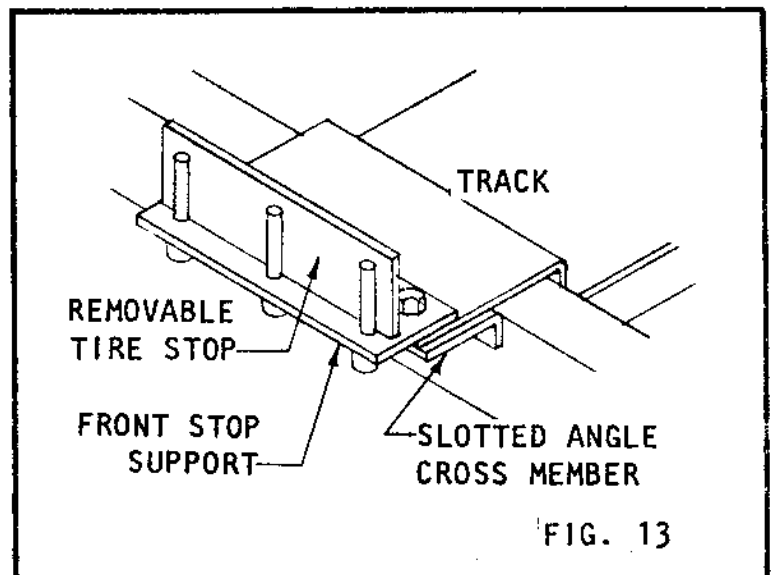
INSTALLATION OF LMA9-LMA12 RUNWAYS

61. The LMA 9 and LMA 12 alignment runways will bolt to the slotted angles on the front and rear cross member outside surface. (See Fig. 13). Center runways in the center of the slots and install the front stop support as shown in (Fig. 13). Install the front removable tire stops.

62. Install ramp pivot support to underneath side of the left rear cross member slotted angle. (See Fig. 14) Bolts must install from top side and clear holes cut in the ramp. Repeat for right runway.

63. Install alignment manufacturer's turntables. The bolts holding the turntable supports should be loosened so that supports slide inward to fit the turntables.

64. Do not clamp too tight because turntables must slide in and out freely. Do not over torque bolts. Adjust turntables supports on each runway.



LEVELING LEG ADJUSTMENT

65. Adjust down position leveling screws to level the lift in the down position. Adjust screw at each leg as necessary and secure with jam nuts. Lift may need to be raised in order to level. (See Fig. 15).

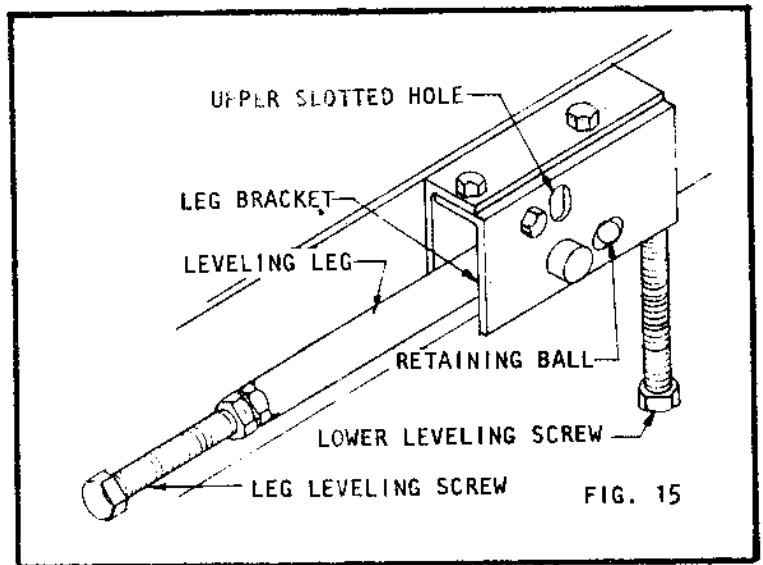
66. To adjust leveling legs, raise lift so all four legs can be rotated down. The retainer ball on each support will move into the upper slotted hole. If there is not enough tension on the leg, or if ball falls out of structure, it can be adjusted by first loosening the two screws retaining the bracket and retightening. The screw retaining the leg stop may need tightening.

67. Using a long level across each runway at the front leg position, level the front of the lift from side to side. The adjusting bolt can be adjusted as necessary to level. Repeat for the other runway. (See Fig. 15).

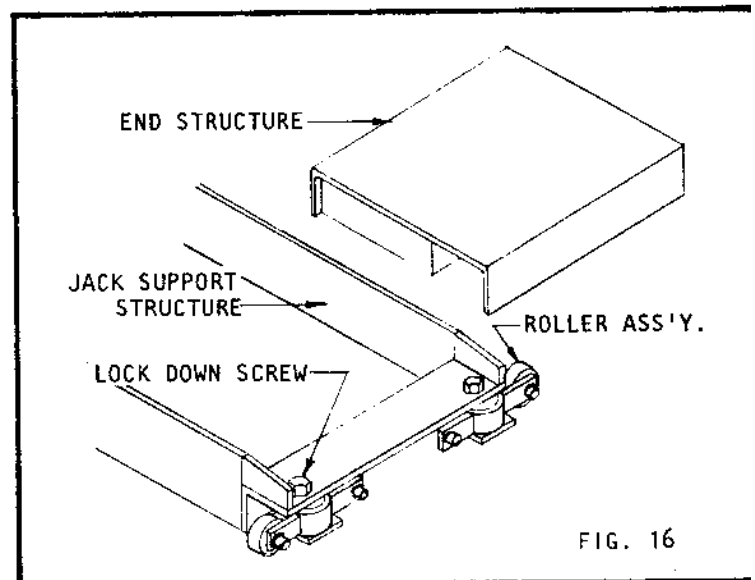
INSTALLING JACK SUPPORT STRUCTURES

68. Install one or two jack support structures onto runways. Runway rolling mechanism is locked down for shipment. Loosen (4) screws holding springs until structures will roll freely when pushed. It may be necessary to remove the screw and add flat washers on top of spring if rollers will not roll when screws are backed off. (See Fig. 16).

69. Each jack support structure contains two end structures which allow jacks to be placed closer to each edge. (See Fig. 16).



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OPERATING INSTRUCTIONS

TO RAISE LIFT

1. Depress switch button or turn switch knob fully clockwise until lift raises to desired height.

TO LOWER LIFT:

2. Move control handle to lower.

3. The above opens the valve and allows the lift to lower by gravity. The heavier the weight, the faster the lift will lower.

4. It may be necessary to adjust the relief valve setting on the lift. To do so, remove cover from valve and use a wrench and screwdriver to change pressure setting as you cause lift to go on relief (raise to maximum position and observe pressure gauge).

5. It may be necessary to add hydraulic oil as lift is raised. If necessary, remove cap on reservoir and loosen vent screw and add oil necessary to get full lifting range from lift. Replace fill cap and vent screw before lowering lift.

6. On all models except LMT 22 and LMT 30, when lift reaches the top, rotate trip handle down and lower lift. Handle must remain in down position until handle hits floor and automatically resets.

7. On the LMT 22 and LMT 30, when the lift reaches the top of the cycle, individual trip brackets on each post must be raised to release them before the lift can be lowered to the ground. Trips automatically re-engage as lift touches the floor.

8. An orifice in each cylinder controls the lowering speed of the lift. This orifice is sized to comply with ALI and ANSI standards and should not be removed or tampered with. This orifice will control the fall of the lift in case of a hydraulic hose or tube breaking. The slot in the orifice must face towards the inside of the cylinder to be properly installed. Do not reverse!

9. The orifice must be installed in the cylinder port nearest the rod end of the cylinder. No orifice is needed in the other cylinder port.

TROUBLE SHOOTING

1. Motor does not run when lever is moved to raise position:

A. Machine is not plugged in or power switch is off.

B. Breaker thrown or overload tripped.

C. Check micro switch on control unit. Replace if bad.

D. Check wiring.

2. Motor runs but lift will not raise or raises partially:

A. Trash under check valve.

B. Check oil level in reservoir. With lift down, reservoir should be full.

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3. Motor runs -- lift will not pick up heavy load. Inadequate pressure.

A. Relief valve setting too low. Raise lift until valve goes on relief; check oil pressure, adjust to 2000 PSI.

B. Hydraulic seals of cylinder may be damaged.

C. Excessive oil leaking from front shaft seal of cylinder -- replace.

4. Oil blows out of breather cap:

A. Oil reservoir overfilled, remove oil until reservoir is full in lowered position.

B. Pilot operated check defective. (If so equipped).

C. Load holding check defective.

5. No pressure or volume:

A. Check to see that motor is running.

B. See if motor is running in right direction.

C. Low oil supply.

D. Pump drive key sheared.

6. Jerky or non-uniform action of lift:

A. Air in system, remove by removing vent screw and adding oil as unit is raised.