

Weightlifter

1000 & 2000 lb

Pickup truck bed model

INSTALLATION INSTRUCTIONS

Tools & Materials Needed

#2 Phillips Screwdriver with 16" shaft

3/8" Socket wrench set US Standard

US Standard wrench set

Hex Key (Allen) Set both metric & US Standard

1/2" electric drill

11/32" drill bit or 8.5mm drill bit

17/32" drill bit

1 1/2" hole saw

wire strippers

Crimp tool for #4 & #8 AWG lugs

10' tape measure

Permanent Marker

Framing Square

small funnel for transmission fluid

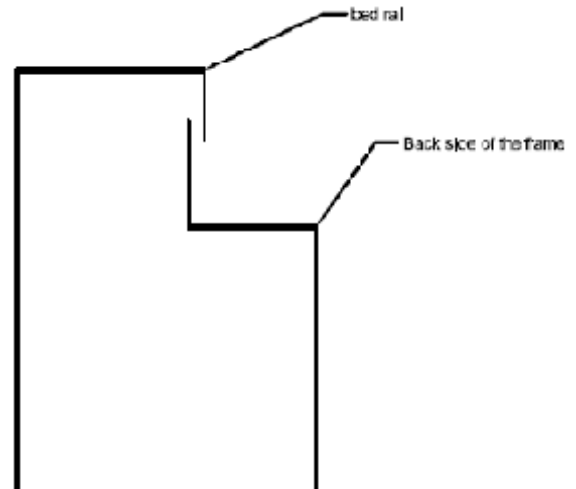
6 quarts Dexron-III Mercon ATF (hydraulic fluid)

Engine Hoist or lifting device with lifting straps. This is not a requirement but each side of the lift weighs approx. 175 lbs (80Kg).

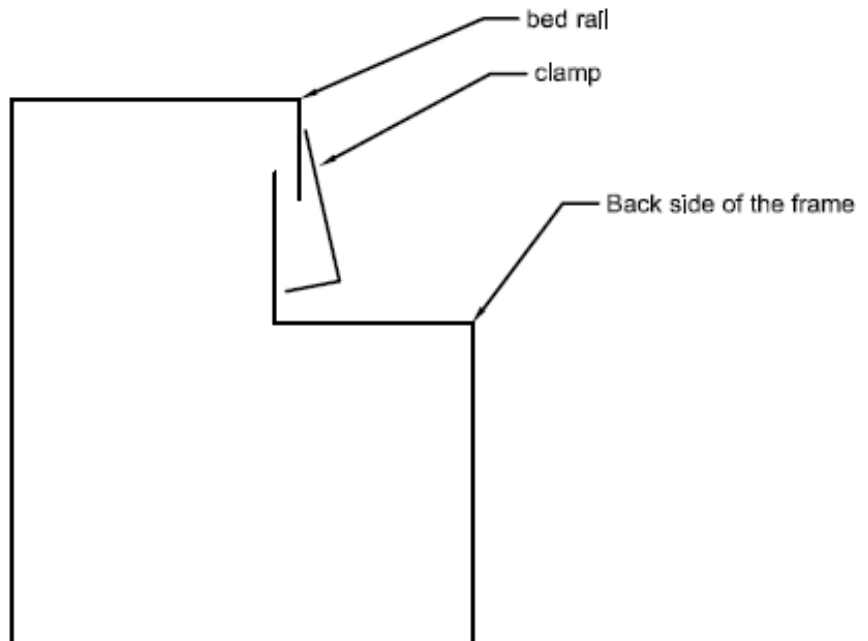
It will require two people to install the lift!

Installation Instructions

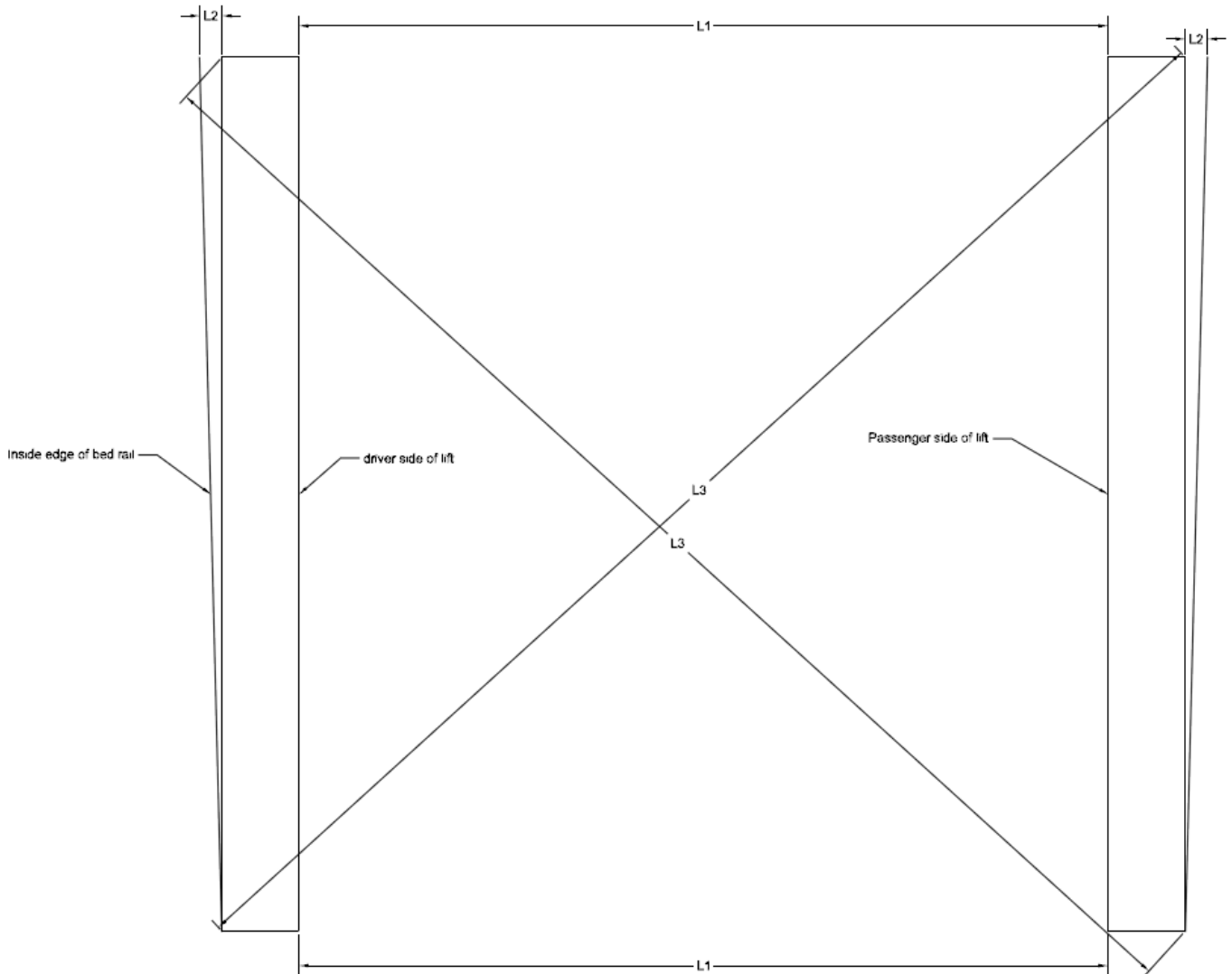
1. Set both sides of the lift in the truck bed.
2. Take either side and stand it up and position it in place by leaning it so it will slide under the bed rail. Then slide it as far to back of the truck bed as it will go.
3. Mark a location under the front end of the lift (pick-up truck cab end) to cut the 1 1/2" hole for running hydraulic hoses and electrical wires.
4. At the back end of the lift mark 2 or 3 holes in the rear stakepocket / tailgate jam to secure the back end of the lift. Use the bottom hole if at all possible and then what ever holes which are convenient. If the stake pocket/ tailgate jam is tapered to much don't worry about any of the rest of the holes.
5. Lay the lift down.
6. Mark the locations on the other side based on measurements from the first side.
7. Drill the 1 1/2" holes and insert grommets in the holes.
8. Drill 17/32" holes for rivet nuts in the rear stake pockets using the measurements from the one side to mark and drill the second side.
9. Place rivet nuts in the holes using the rivet nut installation tool.



10. Take the Driver side of the lift and position it in place in the truck bed. The back side of the frame behind the bed rail and slide the lift as far back as possible.
11. Using 5/16" flat head screws attach the frame of the lift to the rear stake pocket.
12. Bolt the clamp for the driver side all of the way down the length of the frame. It has a notch removed from the bent edge. This notch goes to the back of the truck.
13. Now do the same for the Passenger side of the truck. But make sure that the back end of the frame is the same distance from the back edge of the truck bed as the driver side.

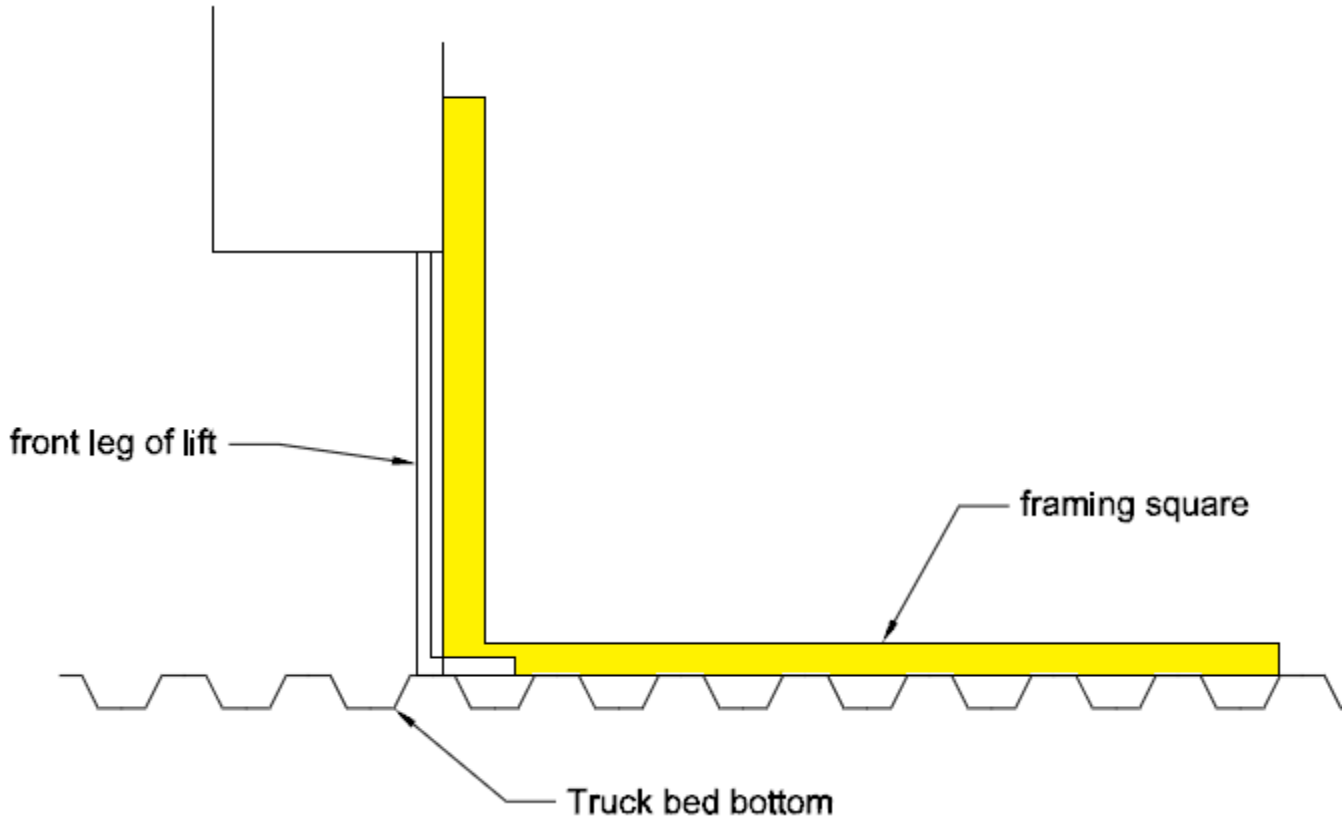


14. On the top side of the driver side lift when looking straight down there are five (5) 5/16-18 bolts. Using a 1/2" wrench loosen the bolts about a 1/2 turn. And then do the same thing on the Passenger side.
15. Using a measuring tape adjust the sides of the lift until the dimensions below are achieved. The measurement of inside edge to inside edge in the front and back needs to be the same so that the sides of the lift are parallel to each other. The measurement across corners of the frame (not the aluminum arm or steel tube holding the arm) needs to be the same to make sure the lift is square in the truck bed.



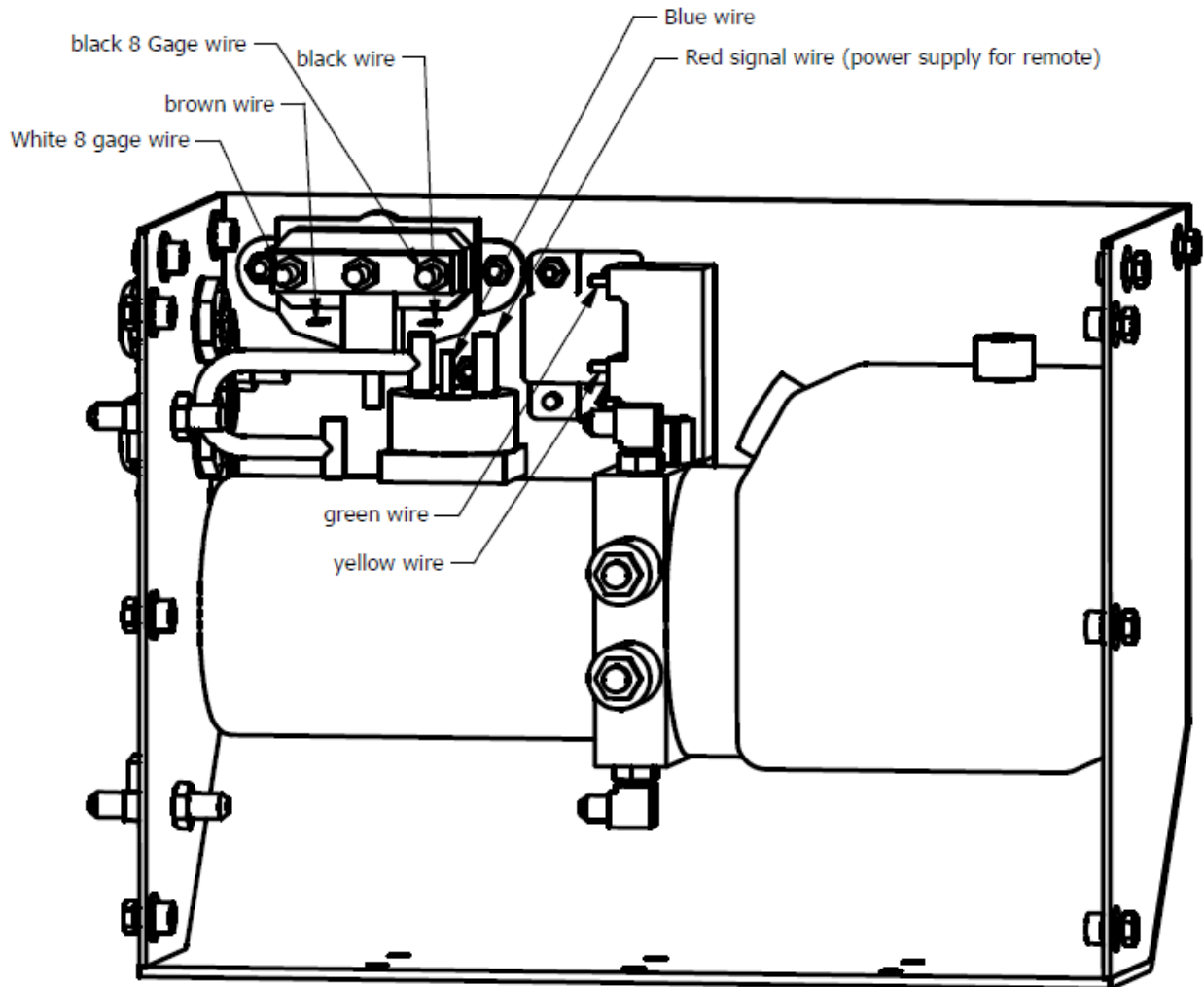
16. Once the sides are positioned tighten up the five 5/16-18 bolts on top of each side. Then check the dimensions one more time to make sure nothing has moved.

17. Using a Framing square adjust the front legs of the unit until they are square to the bed.
18. Then using an 11/32" drill, drill through the truck bed and bolt the leg in place using the backing plates provided under the truck bed. Note there are 1/8" thick plastic shims included to help fill the gap from the ribs in the truck bed.



19. Once both front feet are secured to the truck bed bottom, rotate the arms up and out until the hydraulic cylinders are fully extended. There are two holes in the bottom of the rear foot for securing the back end of the lift down to the bottom of the truck bed.
20. Drill these holes and bolt the lift down using the included backing plates and rib shims to prevent damage to the truck bed.
21. While the aluminum arms are out past the end of the truck bed loosen the 3 bolts on the top side of each arm that hold the aluminum in the steel tube.
22. Rotate both arms back into the truck bed so that they rest on frame of the lift.
23. Loosen the remaining 15 bolts in each arm.
24. Slide the aluminum arm member out to the desired length. You will need at least 4 1/2" (115mm) for 2000# units and 3 1/2" (90mm) for 1000# units past the end of the aluminum for the cross member and winch.
25. Once in position tighten the 15 screws that you can currently get to.
26. Do the same thing for the other arm and make sure that the length of aluminum outside the steel tube is the same as the first side.
27. Set the pump box in front of the driver side of the lift and attach it to the truck bed. Leave enough room to connect the electrical and hydraulics.
28. Run the red 4 gage wire from the positive post of the battery back to the red junction block on the outside of the pump box. Make sure to keep the wire clear of moving parts under the truck.

29. Attach the 4 gage black ground wire to the black junction block on the pump box and to the truck chassis.
30. Run the wire coming out of the driver side frame that has two 8 gage wires in it to the black solenoid in the top left of the pump box. White wire to the left post and the black wire to the right post.
31. Run the signal wire into the other water tight fitting.
 Red Wire Solenoid Power 3/8" terminal (hot in on pump Solenoid)
 Blue Wire Solenoid on Pump #10 terminal (signal on pump solenoid)
 Yellow Wire pump valve closest to pump
 Green Wire pump valve further from pump
 Black Wire right side of winch solenoid
 Brown Wire left side of winch solenoid



32. Attach the hydraulic hoses to the pump box. The hoses with the red wire ties go to the T that has the red wire tie.
33. Fill the pump reservoir with hydraulic oil.
34. Plug the remote in.
35. Press the "OUT" button.

36. The arms should start to move and keep running the arms out while watching the level of oil in the reservoir. Fill reservoir as needed. If the arms fail to move out after a short period of time switch the yellow and green wire wires on the valve attached to the pump.
37. When the arms are completely out tighten the remaining 3 bolts in each arm that hold the aluminum in the steel tube.
38. Press the "IN" Button and run the arms in. Fill the pump reservoir as needed. Cycle the arms in and out a couple of times and then top off the reservoir with the arms laying on top of the frame.
39. With the arms laying on top of the lift frame. Measure the length across the outside of the aluminum.
40. Trim the cross member to the correct size by taking even amounts off of both ends of the aluminum cross member. The cross member is 59" long to start with so if you measured 58" outside to outside you need to remove 1/2" from each end. (Note: The cross member can be left long if desired. Just make sure to keep split the difference each way.)
41. The cross member is held on with an angle on each end. The 2000 # lifts also have a plate on both top and bottom.
42. Use the supplied t-nuts and bolts to attach the angles and plates to the cross member after feeding the wires for the winch down the slot and out the slot behind the winch.
43. Once the cross member is bolted in place. Connect the wires to the winch with the black wire closest to the aluminum and the white wire further away.
44. Using the metric hex keys attach the wire rope to the winch. With the arms laying on the lift frame, the winch cable should wrap around the drum so that it goes around the backside of the winch (base of the winch), around the top of the drum, and then hang loose over the front edge of the drum.
45. Use the winch up button to wrap the wire rope around the drum. If the winch spins backwards switch the 8 gage black and white wires at the winch.
46. Put the winch cover on over the winch.
47. Put the cover on the pump box.
48. The final step is to attach the bed reinforcement angle at the back end of the truck bed.
49. Use either rivet nuts or nylon insert nuts with the flat head screws to secure the angle to the truck bed. The second leg of the angle should be down towards the bumper.