MR6K-48X

Mid-Rise Scissor Lift

6,000 lbs.

ASSEMBLY & OPERATION

INSTRUCTION MANUAL

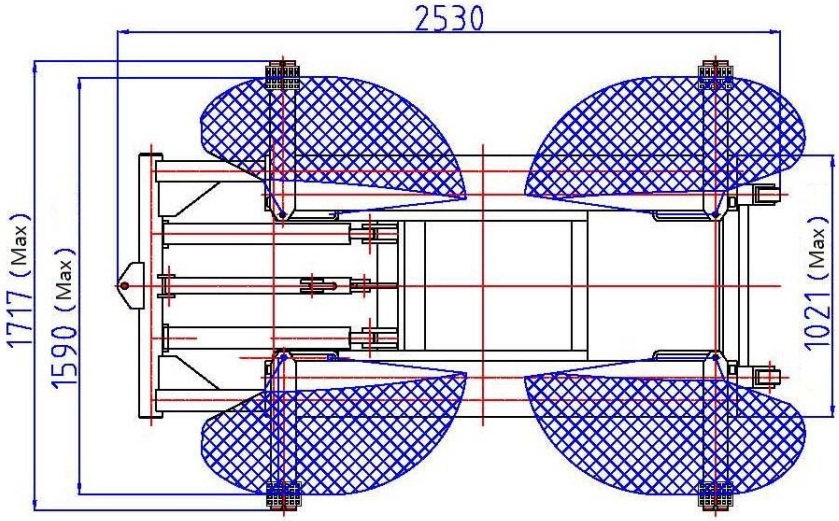
November 2014

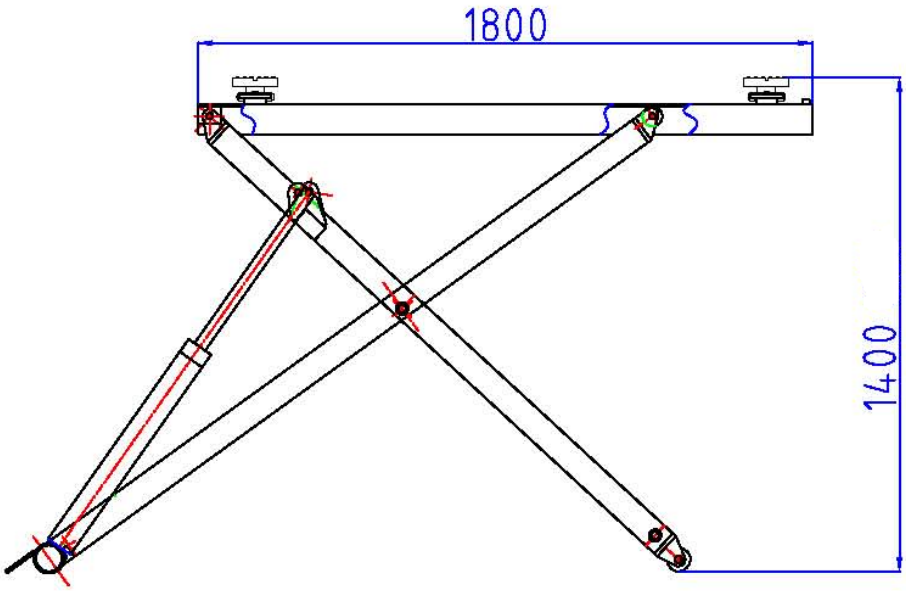
Important!

Be sure to read the operating instructions before operating your lift!

Getting Ready

Make sure you have made all necessary measurements to assure that your lift will fit in your shop / garage and accommodate the car you intend to lift with it. Make sure you have enough clearance at the top, and enough width to allow walking around. And make sure he knows what the circuit requirements are (110 volt, single phase, 15 amp).





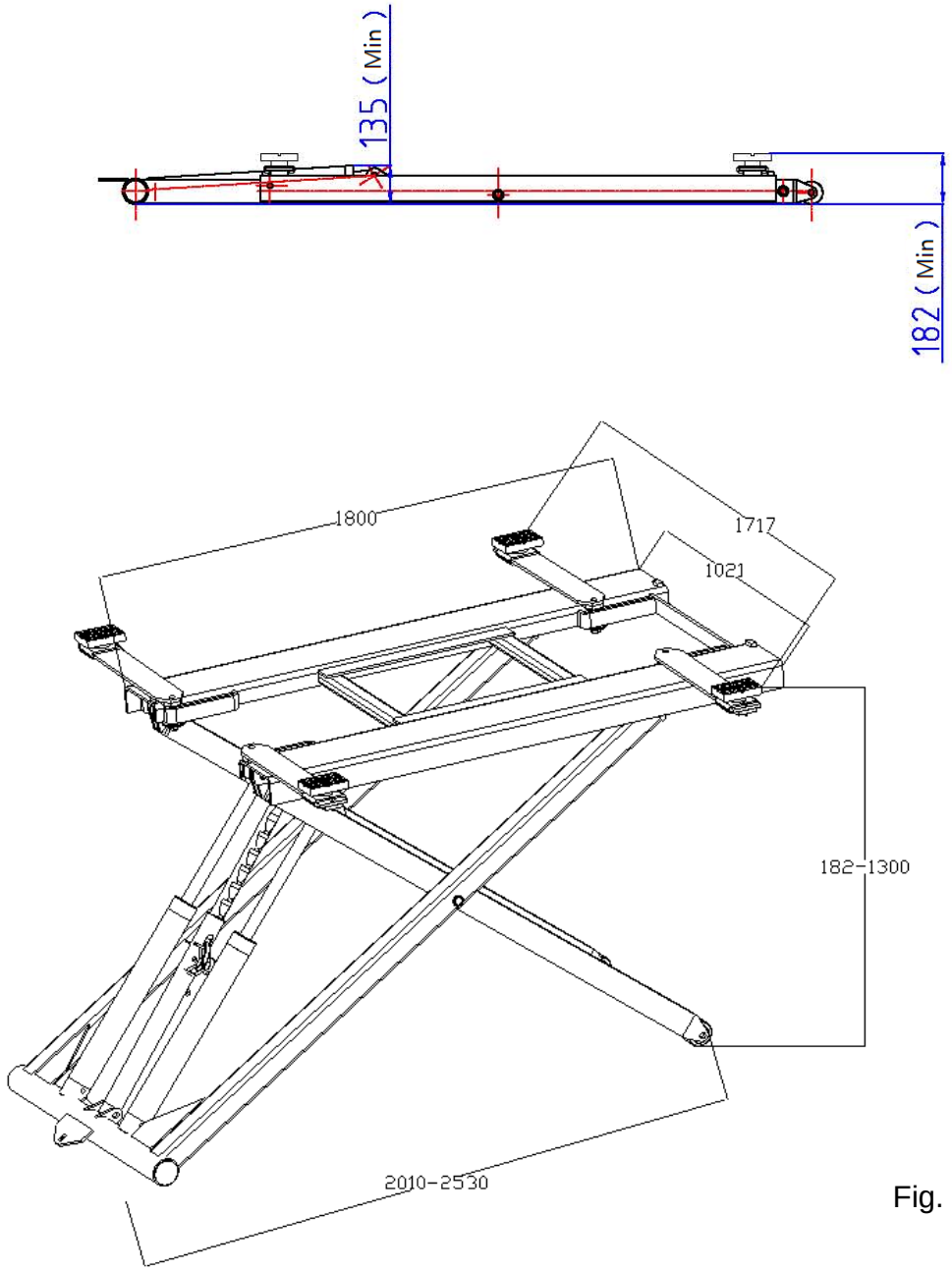


Fig. 1

Make sure you have someone to help you. The piece of this lift is big, heavy, and cumbersome. The lift package weighs about 900 pounds by itself. It is possible for one people to install this lift if he has the appropriate lifting and handling equipment, but it is definitely easier and faster if there is another people available to help manhandle the piece into place. As with any activities involving big heavy materials, safety must be uppermost in your mind. This lift is not difficult to install because of its simple design, but this very design makes it extremely effective for shop and residential garage use. With proper preparation and installation, you will be very pleased with this lift.

Required Tools

1. Fork Lift to unload lift on delivery
2. Wrenches and socket with ratchet
3. Adjustable wrench
4. Pliers
5. Flat blade screwdriver

Installation

You will need common hand tools that most homeowners have, like a hammer, screwdrivers and pliers, but in addition, you will need some tools that are not common. Each installation is somewhat different, and depends on how much room you have to work around the lift. Here is a chronological sequence of installation steps, with the associated tools.

1 Unloading the lift

You'll need a forklift that can handle about 2000 to 2300 pounds and operate on a smooth surface.

2 Un-banding the lift

The steel bands which secure the lift parts to the pallets are heavy duty. You'll need a pair of metal shears or tin snips to cut the bands. Be very careful when doing this because the bands will tend to fly apart when they are cut, and the heavy lift parts may shift when freed from the bands. Stand to the side of the bands when you cut them, and use gloves when removing the cut bands because they have sharp edges.

3. Moving pieces

You can move the large piece to the garage with the forklift. Other smaller pieces can be moved manually.

STEP 1--- Assemble the dolly & cable handle
Take out the pieces of the dolly from the carton. Then assemble them to be the dolly as Fig. 2. Then mount on the lock-release cable handle on the dolly. (Fig.3)

Fig. 3

Fig. 2

STEP 2 --- Mount on the motor pump
Take out the motor pump from the carton also. Then use the bolts provided to fix the pump on the dolly.(Fig.4)

Fig. 4

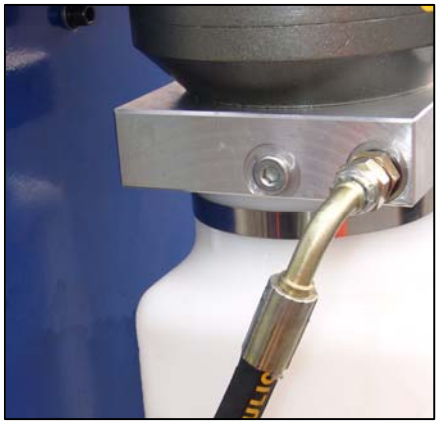


Fig. 5

STEP3 --- Hose connecting & filling the tank
Connect the hydraulic hose to the pump output port. (Fig. 5)
Then fill the thank with hydraulic oil AW32# or AW46# about 6 L.

STEP4 --- AC power supply
Connect the motor pump with proper cable extension and a plug which fit the AC power supply port on the wall. And please remember there must be one 30A air-relay in the line for safety

Fig. 6

STEP5 --- Testing
Push the start button on the motor pump to drive the hydraulic oil into the cylinders on the lift. The lift will rise up with lock latch passing the ladder.

Release the button, the motor will stop rising. Press down the lowering lever on the pump, the lift will lower down and be lock at the height.

Push the start button 2-3 seconds to rise the frame a little. The safety latch will leave the cave of safety ladder. Then hold tight the lock-release handle to pull up the latch through the cable. While holding the handle, press down the lowering lever again, the lift will lower down to ground.

Note:
If the latch does touch the ladder while rising or does not leave the ladder after handle is hold tight, please adjust the position of the nut on the threaded part. (Fig. 7)

If everything is OK, now the lift is ready for operation.

Fig. 7

OPERATING INSTRUCTIONS

The lift is very simple to operate. The start button on the motor pump is pushed in and held to activate the switch which turns the electric motor on. The motor operates an internal pump that forces hydraulic oil into the lift cylinders, which extends the pistons and raises the lift. As the lift rises, an safety latch will pass over the steel stops (rectangular blocks on the bar inside of the middle tube), and you will hear “clanks” as it does so. This sound is normal, and indicates that the safety latch is passing over the stops properly. The lift is raised to the desired height by holding the button in while it is rising, and releasing the button when the lift has reached its desired position. To lower the lift, you need to depress the start button again for a few seconds. The lift will “bump” upwards a little to let the safety latch lock open. If the lock-release cable handle is hold tight and the lowering lever is press down also, then the weight of the vehicle will cause the lift to lower by gravity. No power is required to apply to the motor pump in lowering, but the safety latch must be disengaged to allow the lift to lower past the stops.

After the installation is complete, raise the lift about two feet high and then lower it. Repeat this process two or three times, and then top off the hydraulic oil reservoir again, if necessary. This assures that hydraulic oil is distributed everywhere in the system that it needs to be.

NOTE: Only top off the reservoir with the lift in the “down” position. If you fill the reservoir in the “up” position and then lower the lift, there will be too much hydraulic oil in the system, and it will squirt out of the top of the control unit.

RAISING A VEHICLE

Drive the vehicle onto the lift frame until it is about centered. Set the parking brake. Move out the arms to make the rubber pad under the support position of the vehicle frame. Depress the “up” button to raise the vehicle a little. Check again all the arms to make sure everything is in safe. Then lift up the vehicle to desired height.

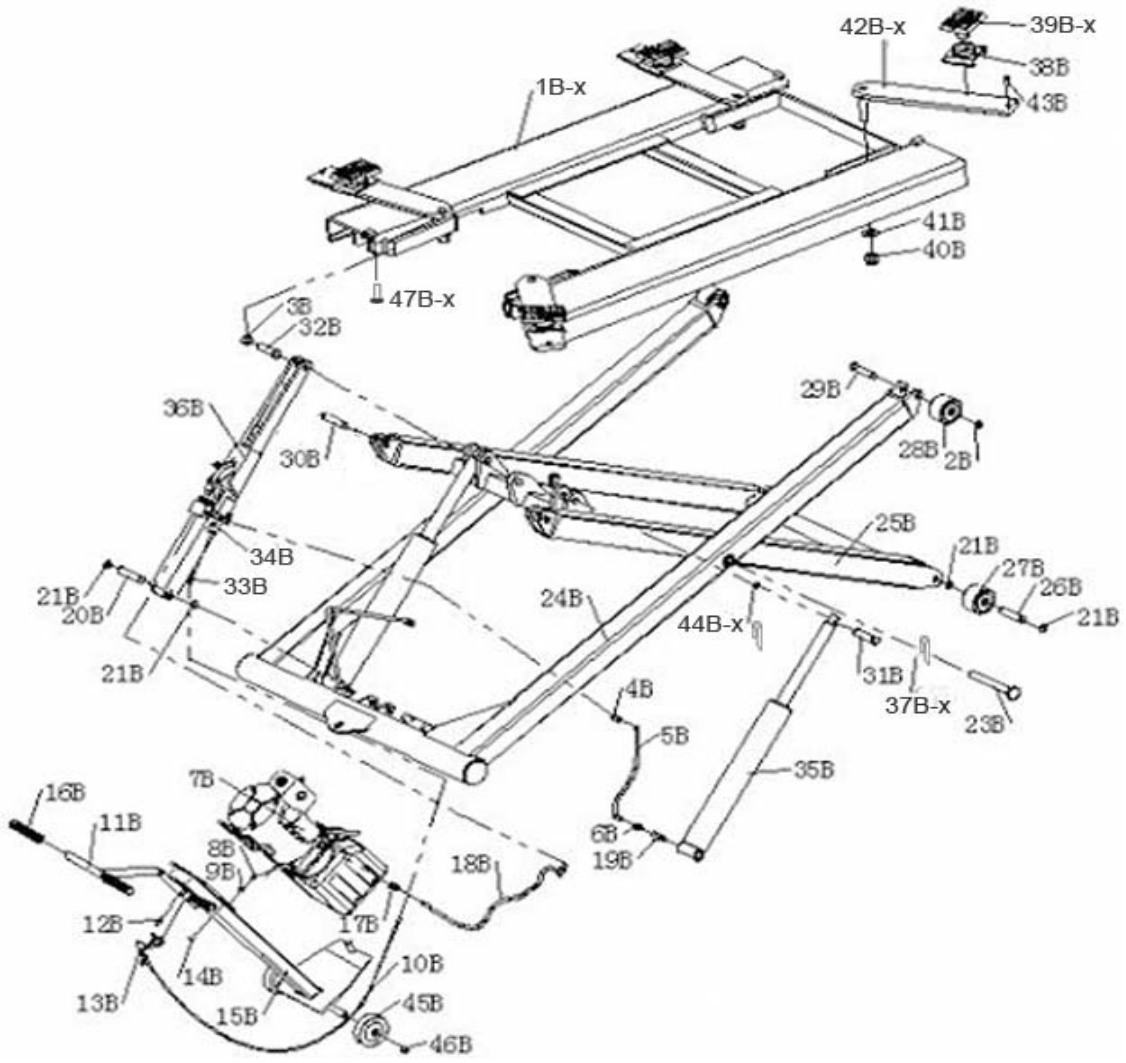
BE CAREFUL NOT TO RAISE THE VEHICLE SO HIGH THAT IT STRIKES THE CEILING! MAKE SURE ANTENNAS ARE REMOVED, IF NECESSARY, AND BE AWARE OF ANYTHING THAT PROTRUDES FROM THE CEILING, LIKE LIGHTBULBS, GARAGE DOOR OPENERS OR DOOR TRACKS.

Fig. 8

MISCELLANEOUS

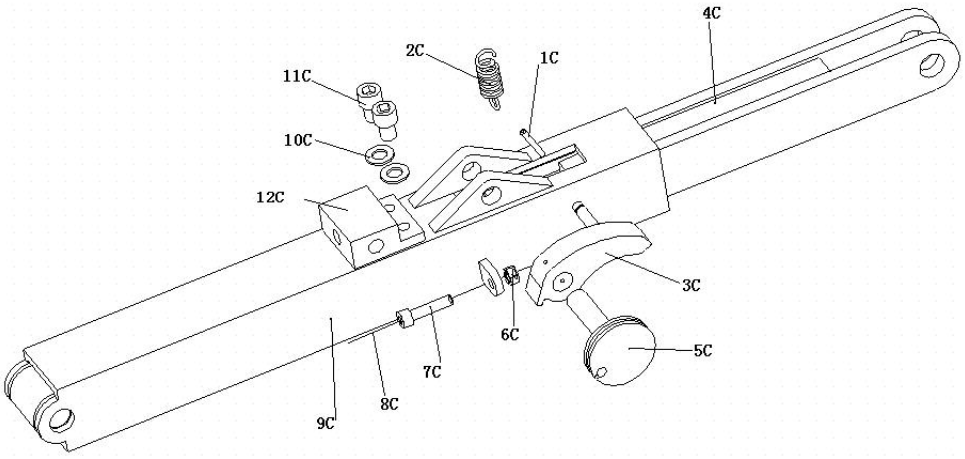
The hydraulic oil should be replaced every two years, and the inside corners of the lift arms should be re-greased with a general-purpose axle grease every year, or so, as it becomes obvious that it needs it.

PARTS DRAWING MR6K-48X /161202X (Fig. 9)



ITEM	CODE	DESCRIPTION	QUANTITY
1B-x	161202X-B-01	Table	1
2B	161202X-B-02	Retaining ring	2
3B	161202X-B-03	Locking nut	1
4B	161202X-B-04	Oil pipe connector	3
5B	161202X-B-05	Branch inlet pipe	2
6B	161202X-B-06	Oil pipe connector	2
7B	161202X-B-07	Oil supply fitting	1
8B	161202X-B-08	Nut	4
9B	161202X-B-09	Washer	4
10B	161202X-B-10	Break steal cable	1
11B	161202X-B-11	Handle	1
12B	161202X-B-12	Hex screw	4
13B	161202X-B-13	Lock–release handle	1
14B	161202X-B-14	Bolt	4
15B	161202X-B-15	Transmission holder	1
16B	161202X-B-16	Rubber cap	1
17B	161202X-B-17	Oil pipe connector	1
18B	161202X-B-18	General inlet pipe	1
19B	161202X-B-19	Check valve	2
20B	161202X-B-20	Safety locking pin	1
21B	161202X-B-21	Retaining ring	6
23B	161202X-B-23	Scissor pin	2
24B	161202X-B-24	Scissor outside	1
25B	161202X-B-25	Scissor inside	1
26B	161202X-B-26	Wheel pin	2
27B	161202X-B-27	Big wheel	2
28B	161202X-B-28	Small wheel	2
29B	161202X-B-29	Wheel pin	2
30B	161202X-B-30	Connection pin	2
31B	161202X-B-31	Cylinder pin	2
32B	161202X-B-32	Safety locking pin	1
33B	161202X-B-33	Bolt	1
34B	161202X-B-34	Nut	1
35B	161202X-B-35	Cylinder assembly	2
36B	161202X-B-36	Safety locking assembly	1
37B-x	161202X-B-37	cotter pin	2
38B	161202X-B-38	Saddle holder	4
39B-x	161202X-B-39	Rubber saddle	4
40B	161202X-B-40	Locking nut	4
41B	161202X-B-41	Washer	4
42B-x	161202X-B-42	Plate	4
43B	161202X-B-43	Bolt	4
44B-x	161202X-B-44	cotter pin	2
45B	161202X-B-45	Wheel	2
46B	161202X-B-46	Nut	2
47B-x	161202X-B-47	threaded pin	2

PARTS DRAWING MR6K-48X /161202X (Fig.10)



ITEM	CODE	DESCRIPTION	QUANTITY
1C	161202X-C-01	Pin	1
2C	161202X-C-02	Spring	1
3C	161202X-C-03	Lock block	1
4C	161202X-C-04	Lock pole	3
5C	161202X-C-05	Lock wheel	1
6C	161202X-C-06	Nut	1
7C	161202X-C-07	Bolt	1
8C	161202X-C-08	Steel wire cable	1
9C	161202X-C-09	Lock sheath	1
10C	161202X-C-10	Washer	1
11C	161202X-C-11	Bolt	1
12C	161202X-C-12	Check valve	1

TUXEDO DISTRIBUTORS LIMITED WARRANTY

Structural Warranty:

The following parts and structural components carry a five year warranty:

Columns	Top Rail Beam	Uprights	Arms Swivel Pins
Legs	Carriages	Tracks Overhead Beam	Cross Rails

Limited One-Year Warranty:

Tuxedo Distributors, LLC ("Tuxedo") offers a limited one-year warranty to the original purchaser of Tuxedo lifts and Wheel Service in the United States and Canada. Tuxedo will replace, without charge, any part found defective in materials or workmanship under normal use, for a period of one year after purchase. The purchaser is responsible for all shipping charges. This warranty does not apply to equipment that has been improperly installed or altered or that has not been operated or maintained according to specifications.

Other Limitations:

This warranty does not cover:

1. Parts needed for normal maintenance
2. Wear parts, including but not limited to cables, slider blocks, chains, rubber pads and pulleys
3. Replacement of lift and tire changer cylinders after the first 30 days. A seal kit and installation instructions will be sent for repairs thereafter.
4. On-site labor

Upon receipt, the customer must visually inspect the equipment for any potential freight damage before signing clear on the shipping receipt. Freight damage is not considered a warranty issue and therefore must be noted for any potential recovery with the shipping company.

The customer is required to notify Tuxedo of any missing parts within 72 hours. Timely notification must be received to be covered under warranty.

Tuxedo will replace any defective part under warranty at no charge as soon as such parts become available from the manufacturer. No guarantee is given as to the immediate availability of replacement parts.

Tuxedo reserves the right to make improvements and/or design changes to its lifts without any obligation to previously sold, assembled or fabricated equipment.

There is no other express warranty on the Tuxedo lifts and this warranty is exclusive of and in lieu of all other warranties, expressed or implied, including all warranties of merchantability and fitness for a particular purpose.

To the fullest extent allowed by law, Tuxedo shall not be liable for loss of use, cost of cover, lost profits, inconvenience, lost time, commercial loss or other incidental or consequential damages.

This Limited Warranty is granted to the original purchaser only and is not transferable or assignable.

Some states do not allow exclusion or limitation of consequential damages or how long an implied warranty lasts, so the above limitations and exclusions may not apply. This warranty gives you specific legal rights and you may have other rights, which may vary from state to state.

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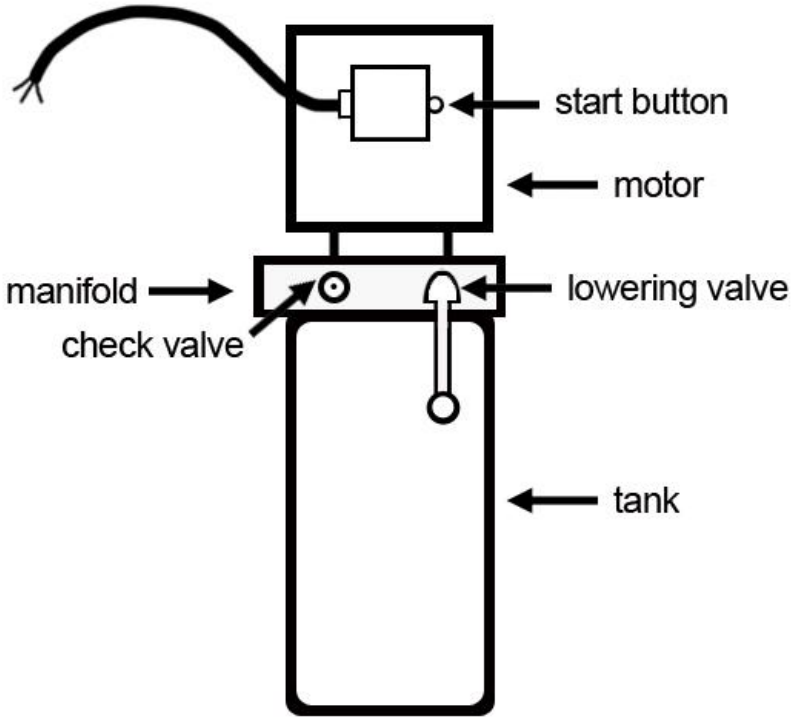
IMPORTANT

POWER UNIT PRIMING PROCEDURE

THE PROBLEM: Power unit runs fine but will not pump any fluid.

Step 1 – Locate the check valve, the flush plug to the left of the lowering valve. (See drawing below.)



Step 2 – Using an Allen wrench and shop towel – with shop towel in place to catch fluid – loosen the check valve plug 2 ½ turns to allow it to leak.

Step 3 – Push the START button for one second, then release for three seconds. Repeat these steps until unit starts pumping fluid.

Step 4 – Tighten the check valve plug.

YOUR POWER UNIT SHOULD BE PRIMED