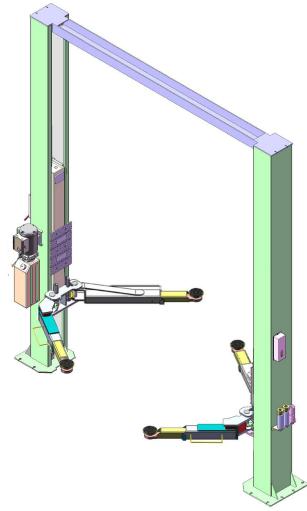


Please read this manual before operation



# **Installation And Service Manual**



TWO-POST LIFT

MODEL: W-10SC 10,000-Lb. Capacity

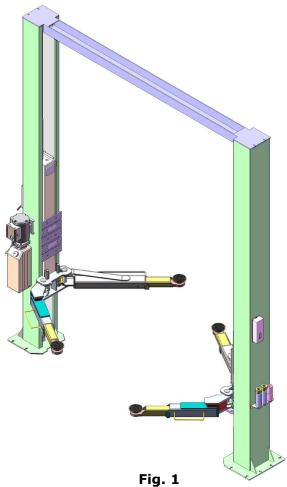
Derek Weaver Company, Inc. 2944 SE Loop 820 Fort Worth, TX 76140 817-560-9510

# **CONTENTS**

| Product Features and Specifications1 | L          |
|--------------------------------------|------------|
| Installation Requirement3            | }          |
| Steps of Installation                | 4          |
| Exploded View1                       | <u> </u>   |
| Test Run2                            | <u>!</u> 3 |
| Operation Instruction2               | .5         |
| Maintenance2                         | 5          |
| Trouble Shooting20                   | 6          |
| Parts List2                          | .7         |

# I. PRODUCT FEATURES AND SPECIFICATIONS **CLEARFLOOR DIRECT-DRIVED MODEL FEATURES** MODEL W-10SC (See Fig.1)

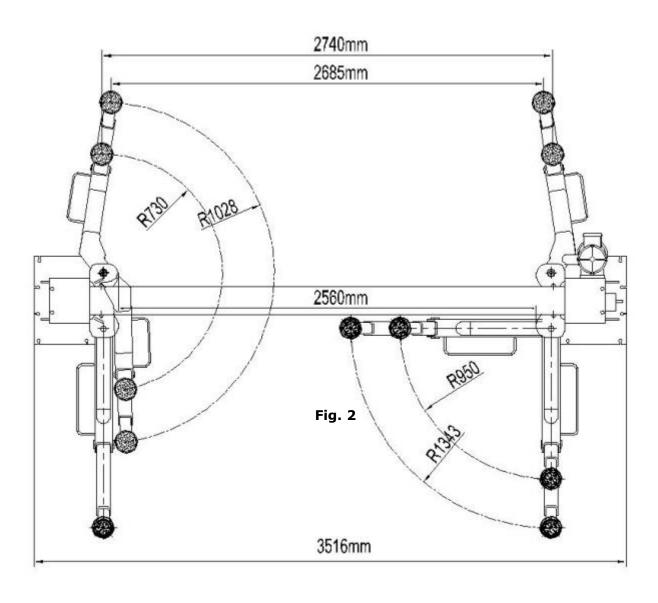
- · Direct-driving design, minimize the lift wear parts and breakdown ratio.
- · Dual hydraulic direct-drive cylinders, designed and made on ANSI standard, utilizing oil seal in cylinder.
- · Self-lubricating UHMW Polyethylene sliders and bronze bush.
- · Single-point safety release, and dual safety design.
- · Overhead safety shut-off device.
- · Super-asymmetric arms design can fit extremely wide vehicles.
- · Stackable adapters 1.5", 2.5", 5" as standard.



#### **MODEL W-10SC SPECIFICATIONS**

| Model  | Style                            | Lifting<br>Capacity | Lifting<br>Time | Lifting Height  | Overall<br>Height | Overall<br>Width | Width<br>Between<br>Columns | Minimum<br>Pad<br>Height | Gross<br>Weight | Motor |
|--------|----------------------------------|---------------------|-----------------|-----------------|-------------------|------------------|-----------------------------|--------------------------|-----------------|-------|
|        | 10SC Clear-floor<br>Direct-drive | 4.5T                |                 | 1940-2169mm     | 3854mm            | 3516mm           | 2850mm                      | 115mm                    | 762Kg           |       |
| W-10SC |                                  | 10,000lbs           | 60S             | 76 3/8″-85 3/8″ | 151 3/4"          | 138 3/8"         | 112 1/4"                    | 4 1/2"                   | 1,719lbs        | 3.0HP |

# W-10SC Arm Swings View



# II. INSTALLATION REQUIREMENT

### **A. TOOLS REQUIRED**

✓ Rotary Hammer Drill (Ф19)



✓ Carpenter's Chalk



✓ Hammer



✓ Screw Sets



✓ Level Bar



√ Tape Measure (7.5m)



✓ English Spanner (12")



✓ Pliers



✓ Ratchet Spanner With Socket (28<sup>#</sup>)



✓ Socket Head Wrench (3<sup>#</sup>, 6<sup>#</sup>)



Wrench set (10\*, 13\*, 14\*, 15\*, 17\*, 19\*, 24\*,27\*)



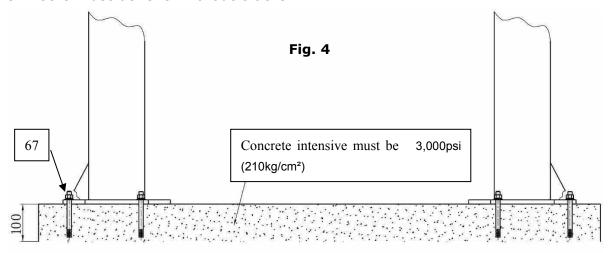




#### B. SPECIFICATIONS OF CONCRETE (See Fig. 4)

Specifications of concrete must be adhered to the specification as following. Failure to do so may result in lift and/or vehicle falling.

- 1. Concrete must be thickness 100mm minimum and without reinforcing steel bars, and must be dried completely before the installation.
- 2. Concrete must be in good condition and must be of test strength 3,000psi (210kg/cm²) minimum.
- 3. Floors must be level without cracks.



#### C. POWER SUPPLY

The electrical source must be 3.0HP minimum. The source cable size must be 2.5mm<sup>2</sup> and in good condition of contacting with floor.

#### **III. STEPS OF INSTALLATION**

#### A. Location of Installation

Check and insure the installation location (concrete, layout, space size etc.) is suitable for lift installation.

B. Use a carpenter's chalk line to establish installation layout of baseplate (See Fig. 5).

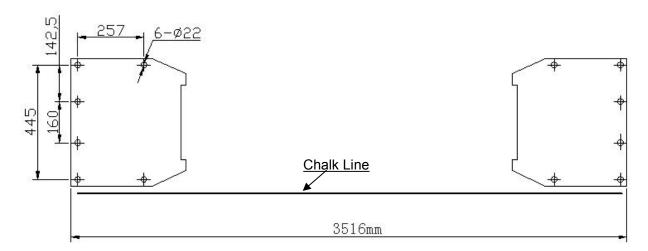


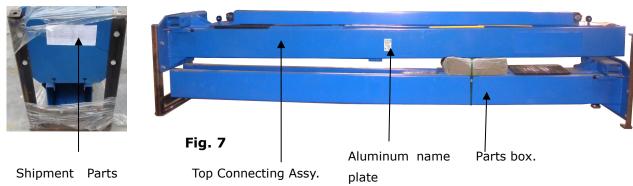
Fig. 5

#### **C.** Check the parts before assembly

1. Packaged lift and hydraulic power unit (see Fig. 6)



2. Move the lift aside with a fork lift or hoist, and open the outer packing carefully , take off the parts from upper and inside the column, take out the parts box, check the parts according to the shipment parts list (See Fig. 7).



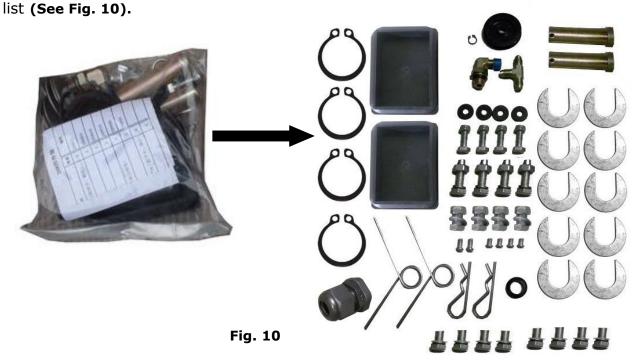
- 3. Loose the screws of the upper package stand, take off the upper column and remove the package stand.
- 4. Move aside the parts and check the parts according to the shipment parts list (See Fig. 8,9).





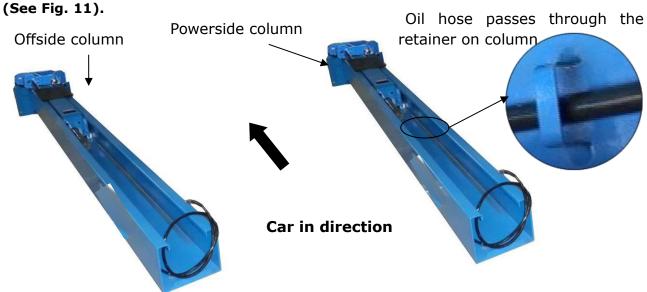
**Fig. 9** Parts in the parts box (76)

5. Open the bag of parts and check the parts of the parts bag according to parts bag



### D. Position powerside column

Lay down two columns on the installation site parallelly, position the powerside column according to the actual installation site. Usually, it is suggested to install powerside column on the front-right side from which vehicles are driven to the lift



#### E. Connecting oil hose

Push the carriages, connecting the cylinder fittings and then connect the oil hose to the cylinder. (See fig.12)

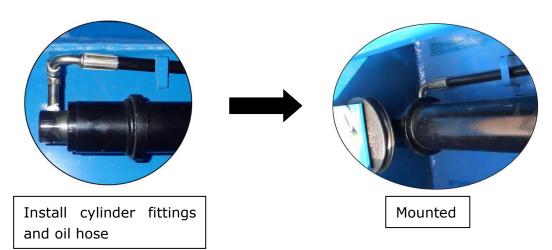
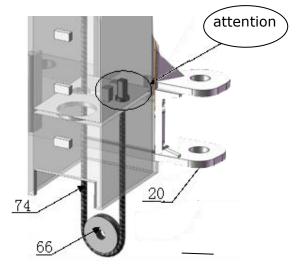


Fig. 12

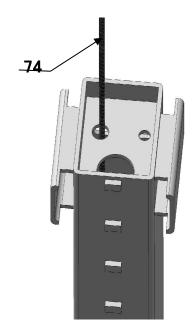
## F. Connecting cables



Cable pass through from the bottom of the carriages



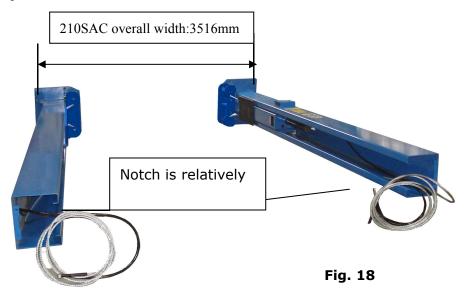
Fig. 13



Cable pass through the top plate of the carriages

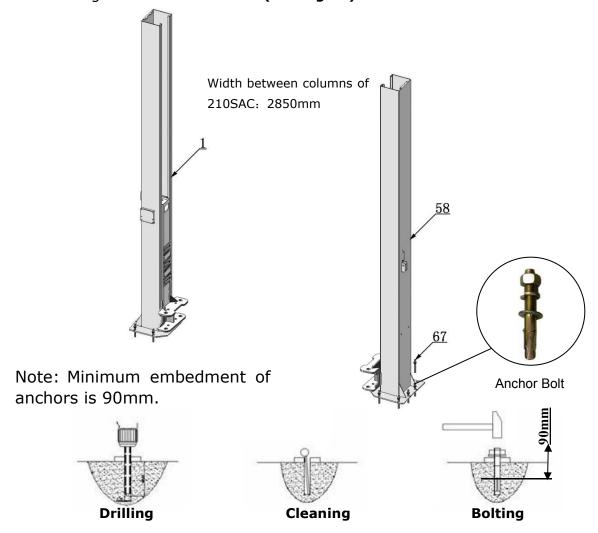


# G. Lay down aside the columns with cables and oil hoses installed, face the open way of each columns.



#### **H. Position columns**

Position the columns on the installation layout of baseplate. Install the anchor bolts. Do not tighten the anchor bolts (See Fig.15).



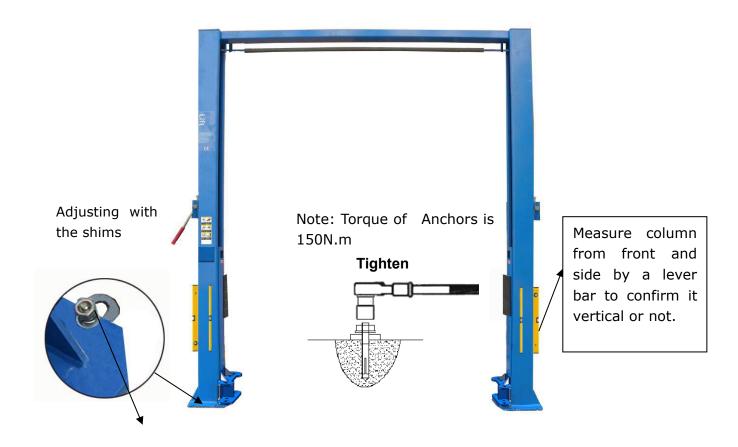
#### I. Assemble overhead top beams (See Fig.16).

Fig. 15



Fig. 16

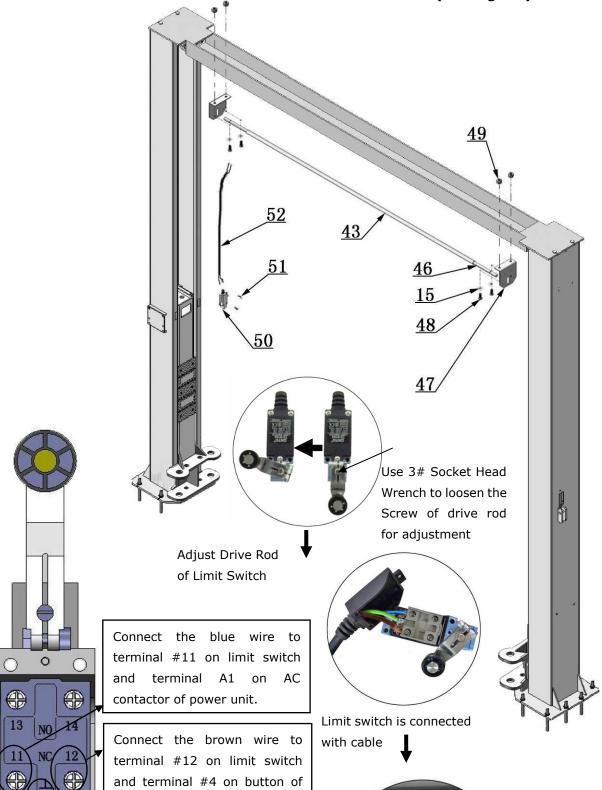
**J.** Check the columns plumbness with level bar, and adjusting with the shims if the columns are not vertical. Tighten the anchor bolts (See Fig.17).



67A/67B

Fig. 21

# K. Install the limit switch control bar and limit switch (See Fig. 18).



Connect the yellow and green wire to earth wire terminal on limit switch and earth wire

terminal of power unit

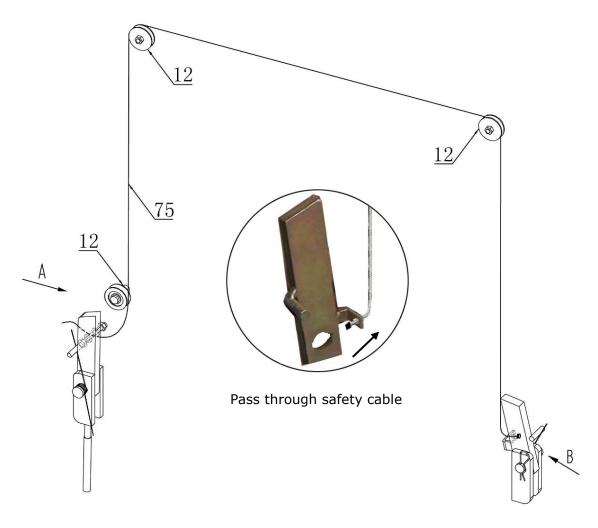
power unit



Fig. 18

#### **NC: Normal contact**

## L. Install safety cable (See Fig. 19).



View A

View B

Fig. 23

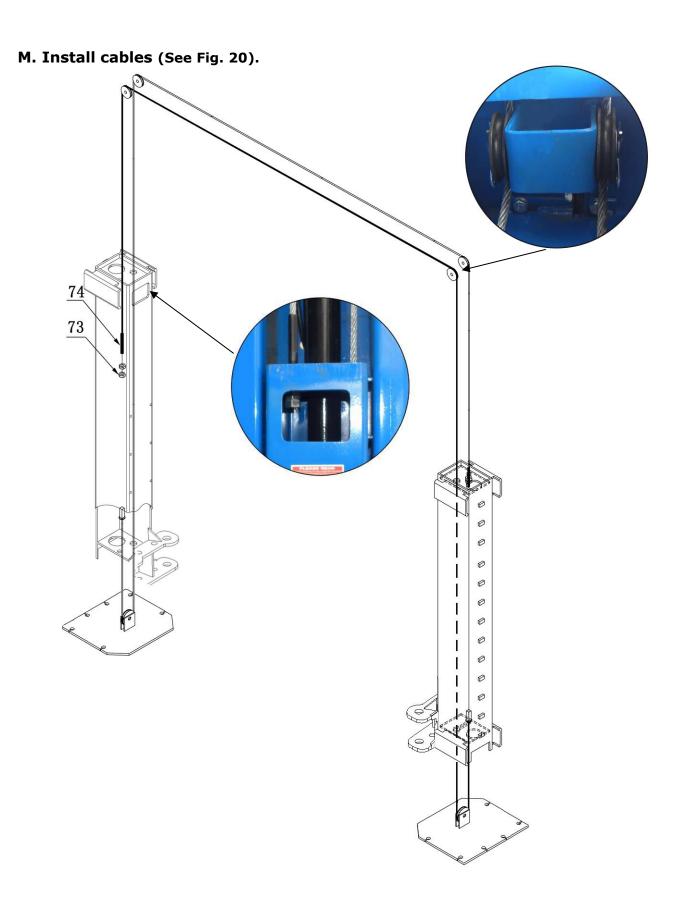


Fig. 24

# N. Assembly oil hose assy (See Fig. 2)

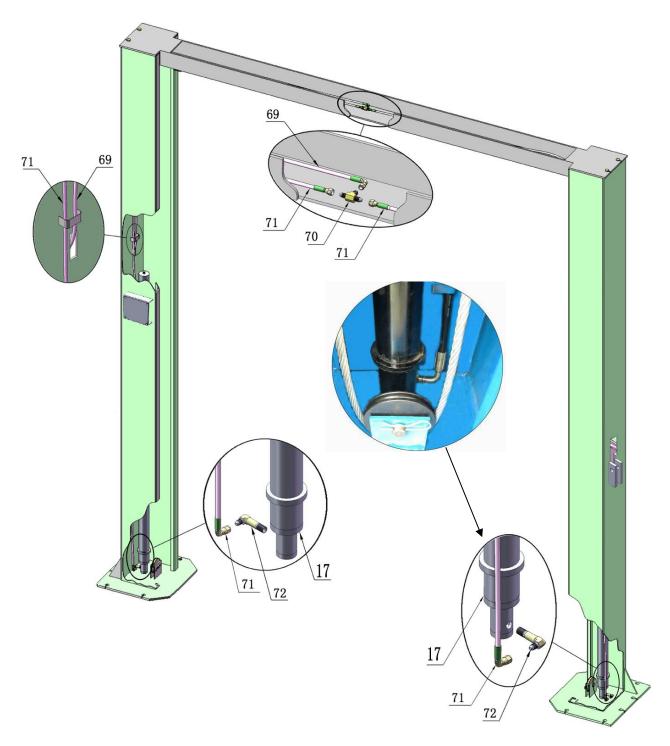


Fig. 21

### O. Install power unit and oil hoses (See Fig. 22)

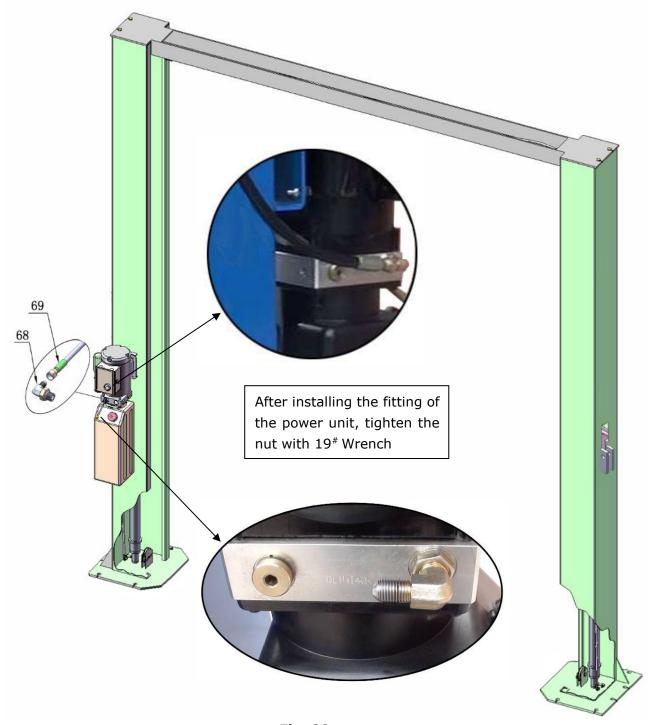
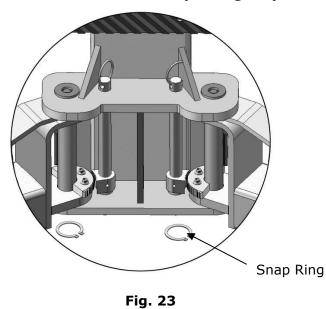


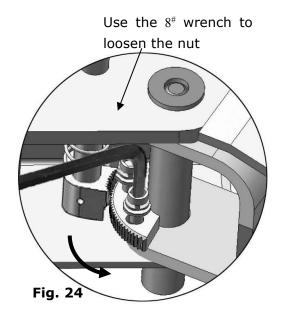
Fig. 22

### P. Install lifting arms and adjust the arm locks

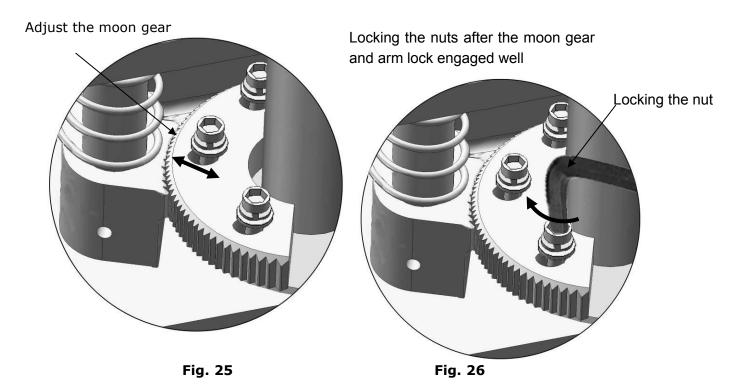
- 1. Install the lifting arms (See Fig. 23).
- 2. Lowing the carriages down to the lowest position, then use the  $8^{\text{\#}}$  wrench to loosen

the nut of arm lock (See Fig. 24).





- 3. Adjust the arm lock as direction of arrow (See Fig. 25)
- 4. Adjust the moon gear and arm lock to make it to be meshed, then tighten the nut of arm lock (See Fig. 26).



Q. Tighten all the hydraulic fittings, and fill the reservoir with hydraulic oil.

Note: In consideration of Hydraulic Power Unit's durability and keep the equipment running in the perfect condition, please use Hydraulic Oil 46#.

#### R. Install electrical system

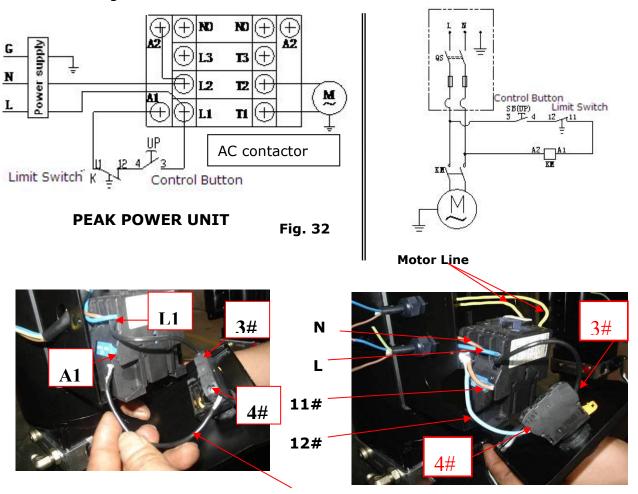
Connect the power source on the data plate of power unit.

Note: 1. For the safety of operators, the power wiring must contact the floor well.

2. Pay attention to the direction of rotations when using three phase motors.

#### PEAK single phase motor (See Fig. 27).

- Connecting the two power supply lines (Active L and Neutral wire N) to terminals of AC contactor marked L1, L2 respectively.
- 2. Connecting the two motor wires to terminals of AC contactor marked **T1**, **T2**.
- 3. Connecting **A2** to **L2** of AC contactor.
- 4. Connecting the Limit Switch: Removing the wire of connecting terminal **4#** on control button and terminal **A1** on AC contactor firstly (**See Fig. 28**), then connecting wire **12#** (**brown color**) of the limit switch with terminal **4#** of the control button and connecting wire **11#** (**blue color**) with terminal **A1** on AC contactor respectively. Connecting the earth wire(green and yellow color) of the limit switch with earth wire terminal on power unit. (**See Fig. 29**).
- 5. Connecting terminal **3#** on control button with terminal **L1** of AC contactor.



# Fig. 28 SPX single phase motor (See Fig. tbis) wire before

Fig. 29

- 1. Power supply line (Neutral Wire **N**) connected with wire **5**# of motor.
- 2. Wire 11# (blue wire) of limit switch is connected with wire 6# of motor.
- 3. Wire **12# (brown wire)** of limit switch is connected with wire **4#** of control button.
- 4. Earth wire( yellow and green wire) of limit switch is connected with terminal earth wire of power unit.
- 5 Wire 3# on control button is connected with active wire(L) of the power supply.

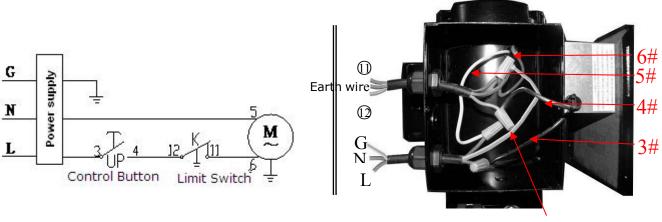


Fig. 30

Earth wire

#### Three phase motor

1. Circuit diagram (See Fig. 31)

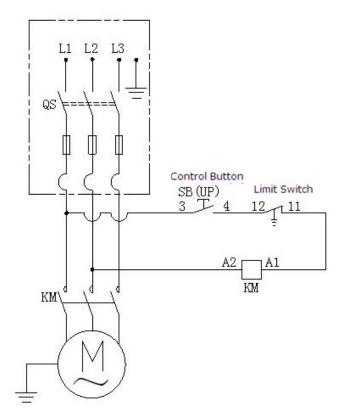
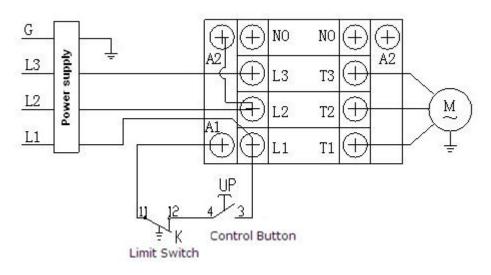


Fig. 31

- 2. Connection step (See Fig. 32)
  - a. The source wires (L1, L2, L3) connected with terminals of AC contactor markedL1, L2, L3 respectively.
  - b. Terminals 4# of control button connected with wire 12# (brown wire) of limit switch; wire 11# (blue wire) connected with A1 terminals of AC contactor, Earth wire( yellow and green wire) of limit switch is connected with terminal earth wire of the motor.
  - C. Terminals 3# of control button connected with L1 terminals of AC contactor.



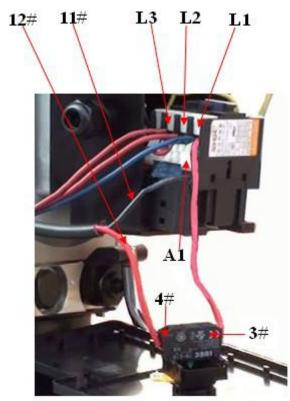
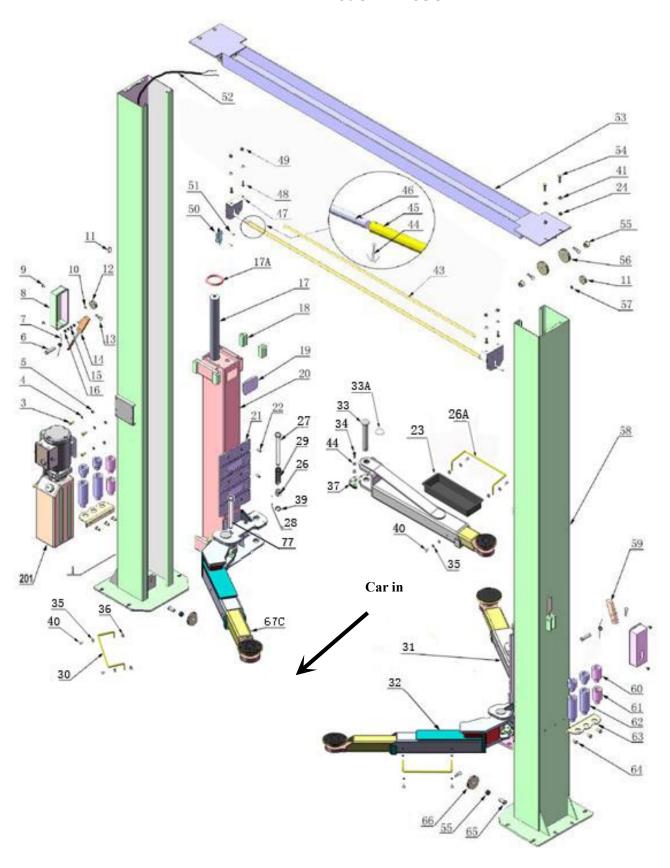
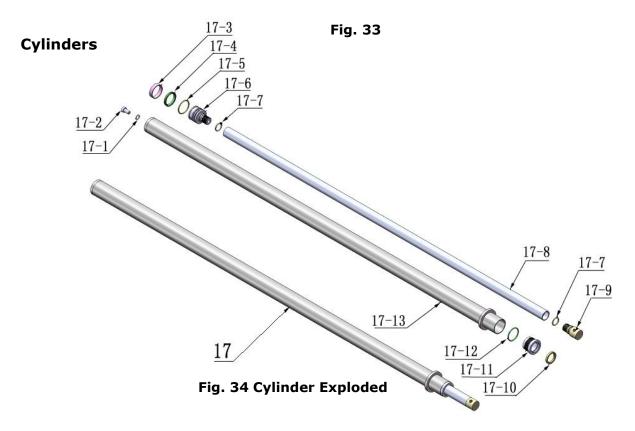


Fig. 32

## **IV. EXPLODED VIEW**

### Model W-10SC





#### **SPX MANUAL POWER UNIT 220V**

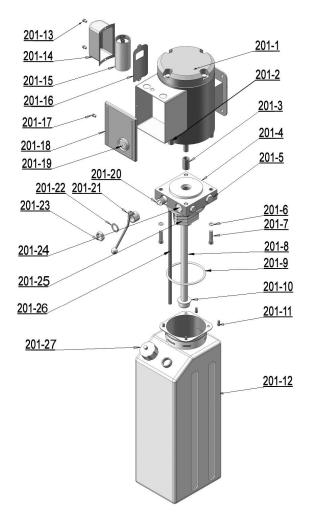
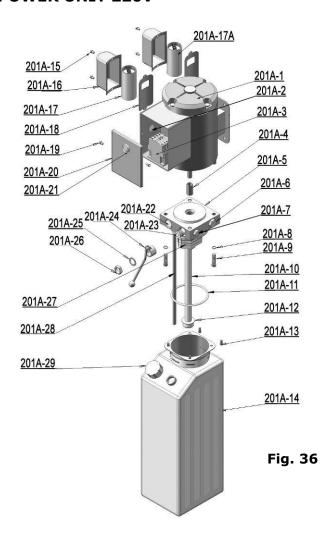


Fig. 35

#### **PEAK MANUAL POWER UNIT 220V**

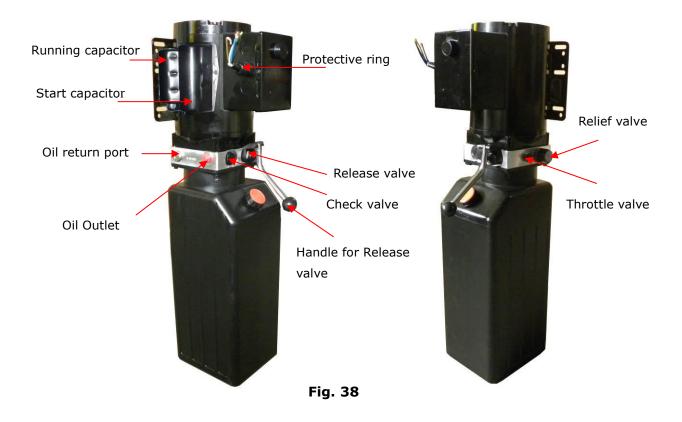


# Illustration of hydraulic valve for SPX & PEAK power unit

### a. SPX manual power unit 220V (See Fig. 37)



## b. PEAK manual power unit 220V (See Fig. 38)



#### V. TEST RUN

#### 1. Adjust synchronous cable (See Fig. 39)

Use wrench to hold the cable fitting, meanwhile use ratchet spanner to tighten the cable nut.

Make sure two cables are with the same tension so that two carriages can work synchronously. Fit the plastic hole cover on the lifting carriages.

If the carriages does not Synchronize when lifting, please tighten the cable nut of lower side carriage.

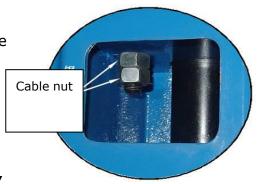


Fig. 39

#### 2. Adjust safety cable

Lifting the carriages and lock at the same height, strain the safety cable and then release a little, and then tighten the cable nuts. Make sure the safety device can always be worked properly.

#### 3. Bleeding air

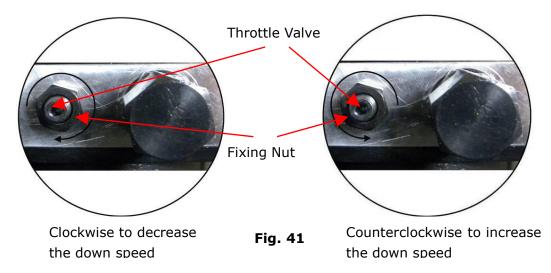
This hydraulic system is designed to bleeding air by loosing the bleeding plug. Lifting the carriages to about 1 meter height, and loose the bleeding plug, the air would be bled automatically, then tighten the plug after bleeding, the lift would work stably and smoothly, otherwise repeat bleeding (See Fig. 40).



Fig. 40

#### 4. Adjust the lower speed (Only for PEAK power unit)

You can adjust the lower speed of the lift if needing: Loosen the fixing nut of the throttle valve, and then turn the throttle valve clockwise to decrease the lower speed, or counterclockwise to increase the lower speed. Do not forget to tighten the fixing nut after the lower speed adjustment has been done.



#### 5. Test with load

After finishing the above adjustment, test running the lift with load. Run the lift in low position for several times first, make sure the lift can rise and lower synchronously, the safety device can lock and release synchronously. And then test run the lift to the top completely. If there are anything improper, repeat the above adjustment.

NOTE: It may be vibrated when lifting at start, lifting it with load for several times, the air would be bled and the vibration would be disappeared automatically.

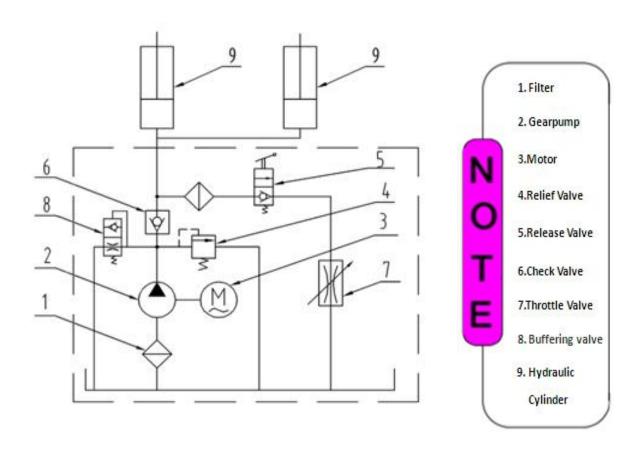


Fig. 42 Hydraulic System

#### VI. OPERATION INSTRUCTIONS

#### Please read the safety tips carefully before operating the lift

#### To lift vehicle

- 1. Keep clean of site near the lift;
- 2. Position lift arms to the lowest position;
- 3. To shortest lift arms;
- 4. Open lift arms;
- 5. Position vehicle between columns;
- 6. Move arms to the vehicle's lifting point;

# Note: The four lift arms must at the same time contact the vehicle's lifting point where manufacturers recommended

- 7. Push button "**UP"** until the lift pads contact underside of vehicle totally. Recheck to make sure vehicle is secure;
- 8. Continue to raise the lift slowly to the desired working height, ensuring the balance of vehicle;
- Push lowering handle to lower lift onto the nearest safety. The vehicle is ready to repair.

#### To lower vehicle

- 1. Be sure clear of around and under the lift, only leaving operator in lift area;
- 2. Push button "**UP**" to raise the vehicle slightly, and then release the safety device, lower vehicle by pushing lowering handle.
- 3. Open the arms and position them to the shortest length;
- 4. Drive away the vehicle.
- 5. Turn off the power.

#### **VII. MAINTENANCE SCHEDULE**

#### Monthly:

- 1. Re-torque the anchor bolts to 150 Nm;
- 2. Check all connectors, bolts and pins to insure proper mounting;
- Lubricate cable with lubricant;
- 4. Make a visual inspection of all hydraulic hoses/lines for possible wear or leakage;
- 5. Check safety device and make sure proper condition;
- 6. Lubricate all rollers and pins with 90wt. Gear oil or equivalent;

Note: All anchor bolts should take full torque. If any of the bolts does not function for any reason, DO NOT use the lift until the bolt has been replaced.

#### **Every six months:**

- 1. Make a visual inspection of all moving parts for possible wear, interference or damage.
- 2. Check and adjust as necessary, equalizer tension of the cables to insure level lifting.
- 3. Check columns for plumbness.
- 4. Check rubber pads and replace as necessary.
- 5. Check safety device and make sure proper condition.

#### **VIII.TROUBLE SHOOTING**

| TROUBLE           | CAUSE                                  | REMEDY                          |
|-------------------|--|---------------------------------|
|                   | 1. Button does not work                | 1. Replace button               |
|                   | 2. Wiring connections are not in good  | 2.Repair all wiring connections |
| Motor does not    | condition                              |                                 |
| run               | 3. Motor burned out                    | 3. Repair or replace motor      |
|                   | 4. Height Limit Switch is damaged      | 4.Replace the Limit Switch      |
|                   | 5. AC Contactor burned out             | 5. Replace AC Contactor         |
|                   | 1. Motor runs in reverse rotation      | 1.Reverse two power wire        |
| Motor runs but    | 2. Gear Pump out of operation          | 2.Repair or replace             |
| the lift is not   | 3. Release Valve in damage             | 3. Repair or replace            |
| raised            | 4. Relief Valve or Check Valve in      | 4.Repair or replace             |
|                   | damage                                 |                                 |
|                   | 5. Low oil level                       | 5.Fill tank                     |
| Lift does not     | 1. Release Valve out of work           |                                 |
| stay up           | 2. Relief Valve or Check Valve leakage | Repair or replace               |
|                   | 3. Cylinder or Fittings leaks          |                                 |
|                   | 1. Oil line is jammed                  | 1. Clean the oil line           |
| Lift raises       | 2. Motor running on low voltage        | 2. Check electrical system      |
| slowly            | 3. Oil mixed with Air                  | 3. Fill tank                    |
|                   | 4. Gear Pump leaks                     | 4. Replace Pump                 |
|                   | 5. Overload lifting                    | 5. Check load                   |
|                   | 1. Safety device are locking           | 1. Release the safeties         |
| Lift cannot lower | 2. Release Valve in damage             | 2. Repair or replace            |
|                   | 3. Safety cable broken                 | 3. Replace                      |
|                   | 4. Oil system is jammed                | 4. Clean the oil system         |

## IX. PARTS LIST FOR MODEL W-10SC

| Item | Part#   | Description                        | Quantity | Note |
|------|---------|------------------------------------|----------|------|
| 1    | 209206  | Powerside Column                   | 1        |      |
| 201  | 209002  | Manual Power Unit                  | 1        |      |
| 3    | 209003  | Hex Bolt                           | 4        |      |
| 4    | 209004  | Rubber Ring                        | 4        |      |
| 5    | 209005  | Self locking Nut                   | 4        |      |
| 6    | 206002  | Safety Pin                         | 2        |      |
| 7    | 209007  | Safety Spring                      | 2        |      |
| 8    | 209008  | Safety Cover                       | 2        |      |
| 9    | 209009  | Cup Head Bolt                      | 4        |      |
| 10   | 209010  | Snap Ring                          | 1        |      |
| 11   | 620059  | Protective ring                    | 1        |      |
| 12   | 209049  | Plastic small pulley               | 3        |      |
| 13   | 209012  | Hair Pin                           | 8        |      |
| 14   | 209013  | Powerside Safety Lock              | 1        |      |
| 15   | 206006  | Washer                             | 6        |      |
| 16   | 206023A | Hex Nut                            | 2        |      |
| 17   | 209014  | Cylinder                           | 2        |      |
| 17A  | 209111  | Protective ring for cylinder       | 2        |      |
| 18   | 209015  | Slider Block                       | 16       |      |
| 19   | 209016  | Carriage Plastic Cover             | 2        |      |
| 20   | 209208  | Carriage                           | 2        |      |
| 21   | 209018  | Protective Rubber                  | 2        |      |
| 22   | 209019  | Screw                              | 12       |      |
| 23   | 206156  | Tool tray                          | 2        |      |
| 24   | 209021  | Hex Nut                            | 4        |      |
| 25   | 209022  | Washer                             | 12       |      |
| 26   | 217044  | Arm lock                           | 4        |      |
| 26A  | 206154  | Rear guard bar                     | 2        |      |
| 27   | 217046A | Arm lock bar(left)                 | 2        |      |
| 28   | 206036  | Hair Pin                           | 4        |      |
| 29   | 217045  | Spring                             | 4        |      |
| 30   | 206155  | Front guard bar                    | 2        |      |
| 31   | 203131  | Lifting Arm - Front (Drop-in)      | 2        |      |
| 31A  | 203149  | Outer Arm - Rear                   | 2        |      |
| 31B  | 203150  | Inner Arm - Rear                   | 2        |      |
| 32   | 209212  | Lifting Arm - Front left (Drop-in) | 1        |      |
| 32A  | 209220  | Outer Arm - Front left             | 1        |      |
| 32B  | 209222  | Inner Arm - Front                  | 1        |      |
|      |         |                                    |          |      |

| Item | Part#   | Description                    | Quantity | Note |
|------|---------|--------------------------------|----------|------|
| 33   | 217168  | Arm Pin                        | 4        |      |
| 33A  | 520023  | Snap Ring                      | 4        |      |
| 34   | 206048  | Socket Bolt                    | 12       |      |
| 35   | 209034  | Lock Washer                    | 16       |      |
| 36   | 209033  | Washer                         | 16       |      |
| 37   | 206049  | Moon Gear                      | 4        |      |
| 38   | 209153  | Pull tab for arm lock bar      | 4        |      |
| 39   | 206032  | Snap ring                      | 4        |      |
| 40   | 201002  | Hex Bolt                       | 12       |      |
| 41   | 209039  | Lock Washer                    | 12       |      |
| 42   | 217114A | Rubber Pad Assy.               | 4        |      |
| 42A  | 420138  | Socket bolt                    | 4        |      |
| 42B  | 209134  | Rubber Pad                     | 4        |      |
| 42C  | 680030B | Rubber Pad Frame               | 4        |      |
| 43   | 206025A | Foam Cushion                   | 1        |      |
| 44   | 201005  | Split pin                      | 2        |      |
| 45   | 206025C | Connecting Pin for Control Bar | 2        |      |
| 46   | 202011  | Control Bar                    | 1        |      |
| 47   | 206042  | Control Bar Bracket            | 2        |      |
| 48   | 206042  | Hex Bolt                       | 4        |      |
|      |         |                                |          |      |
| 49   | 206023  | Self locking Nut               | 4        |      |
| 50   | 206013  | Limit Switch                   | 1        |      |
| 51   | 206011  | Cup Head Bolt                  | 2        |      |
| 52   | 209184  | Wire Cable                     | 1        |      |
| 53   | 211011  | Top Beam                       | 1        |      |
| 54   | 209046  | Hex Bolt                       | 4        |      |
| 55   | 209057A | Bronze Bush                    | 6        |      |
| 56   | 209057  | Small Pulley                   | 4        |      |
| 57   | 209056  | Self locking Nut               | 2        |      |
| 58   | 209207  | Offside Column                 | 1        |      |
| 59   | 211013  | Offside Safety Lock            | 1        |      |
| 60   | 209051B | Stackable Adapter(1.5")        | 4        |      |
| 61   | 209052B | Stackable Adapter (2.5")       | 4        |      |
| 62   | 209053B | Stackable Adapter (5")         | 4        |      |
| 63   | 209054A | Stackable Adapter Bracket      | 2        |      |
| 64   | 209055  | Hex Bolt                       | 6        |      |
| 65   | 209044  | Pin For Pulley                 | 2        |      |
| 66   | 209045  | Big Pulley                     | 2        |      |
| 67   | 209059B | Anchor Bolt                    | 12       |      |
| 67A  | 620065  | Shim                           | 10       |      |
| 67B  | 201090  | Shim                           | 10       |      |

| Item  | Part#   | Description                     | Quantity | Note |
|-------|---------|---------------------------------|----------|------|
| 67C   | 209013  | Lifting Arm-Front(Drop-in)      | 1        |      |
| 67C-1 | 209221  | Outer arm-Front right           | 1        |      |
| 67C-2 | 209222  | Inner arm-Front                 | 1        |      |
| 68    | 209060  | 90° Fitting for power unit      | 1        |      |
| 69    | 211014  | Oil hose                        | 1        |      |
| 70    | 211016  | T- fitting                      | 1        |      |
| 71    | 211015A | Oil hose                        | 2        |      |
| 72    | 211017  | Extend 90° fitting for Cylinder | 2        |      |
| 73    | 209066  | Cable Nut                       | 4        |      |
| 74    | 211018  | Cable                           | 2        |      |
| 75    | 211019  | Safety Cable                    | 1        |      |
| 76    | 209501B | Parts Box                       | 1        |      |
| 77    | 217046  | Arm Lock bar(right)             | 2        |      |
| 17-1  | 209069  | O-Ring                          | 2        |      |
| 17-2  | 209070  | Bleeding Plug                   | 2        |      |
| 17-3  | 209071  | Support Ring                    | 2        |      |
| 17-4  | 209072  | Y-Ring                          | 2        |      |
| 17-5  | 209073  | O-Ring                          | 2        |      |
| 17-6  | 209074  | Piston                          | 2        |      |
| 17-7  | 209075  | 0-Ring                          | 4        |      |
| 17-8  | 209076  | Piston Rod                      | 2        |      |
| 17-9  | 209077  | Piston Rod Fitting              | 2        |      |
| 17-10 | 209078  | Dust Ring                       | 2        |      |
| 17-11 | 209079  | Head Cup                        | 2        |      |
| 17-12 | 209080  | O-Ying                          | 2        |      |
| 17-13 | 209081  | Bore Weldment                   | 2        |      |

| Item      | Part#      | Description                 | Quantity | Note |
|-----------|------------|-----------------------------|----------|------|
| Parts for | SPX manual | power unit                  |          |      |
| 201-1     | 81400030   | Motor                       | 1        |      |
| 201-2     | 81400159   | Protective ring             | 1        |      |
| 201-3     | 81400063   | Motor connecting shaft      | 1        |      |
| 201-4     | 81400031   | Valve body                  | 1        |      |
| 201-5     | 81400160   | Relief valve                | 1        |      |
| 201-6     | 81400161   | Lock washer                 | 4        |      |
| 201-7     | 81400162   | Socket bolt                 | 4        |      |
| 201-8     | 81400121   | Inlet pipe                  | 1        |      |
| 201-9     | 81400163   | O-Ring                      | 1        |      |
| 201-10    | 81400164   | Filter                      | 1        |      |
| 201-11    | 81400165   | Hex Bolt                    | 4        |      |
| 201-12    | 81400093   | Reservoir                   | 1        |      |
| 201-13    | 81400166   | Head screw                  | 2        |      |
| 201-14    | 81400167   | Cover of capacitor          | 1        |      |
| 201-15    | 81400087   | Capacitor                   | 1        |      |
| 201-16    | 81400168   | Rubber gasket               | 1        |      |
| 201-17    | 81400169   | Hex Bolt                    | 1        |      |
| 201-18    | 81400062   | Cover of motor terminal box | 1        |      |
| 201-19    | 81400028   | Push button                 | 1        |      |
| 201-20    | 81400105   | Release valve               | 1        |      |
| 201-21    | 81400033   | Handle for release valve    | 1        |      |
| 201-22    | 81400170   | Washer                      | 1        |      |
| 201-23    | 81400171   | Hex Nut                     | 1        |      |
| 201-24    | 81400043   | Check valve                 | 1        |      |
| 201-25    | 81400123   | Gear pump                   | 1        |      |
| 201-26    | 81400122   | Oil return pipe             | 1        |      |
| 201-27    | 81400172   | Filler cap                  | 1        |      |

| Item                             | Part#    | Description                 | Quantity | Note |  |  |
|----------------------------------|----------|-----------------------------|----------|------|--|--|
| Parts for PEAK manual power unit |          |                             |          |      |  |  |
| 201A-1                           | 81400048 | Motor                       | 1        |      |  |  |
| 201A-2                           | 81400178 | Protective ring             | 1        |      |  |  |
| 201A-3                           | 81400179 | AC contactor                | 1        |      |  |  |
| 201A-4                           | 81400127 | Motor connecting shaft      | 1        |      |  |  |
| 201A-5                           | 81400067 | Valve body                  | 1        |      |  |  |
| 201A-6                           | 81400106 | Relief valve                | 1        |      |  |  |
| 201A-7                           | 81400107 | Throttle valve              | 1        |      |  |  |
| 201A-8                           | 209149   | Lock washer                 | 4        |      |  |  |
| 201A-9                           | 81400148 | Socket bolt                 | 4        |      |  |  |
| 201A-10                          | 81400134 | Inlet pipe                  | 1        |      |  |  |
| 201A-11                          | 81400144 | O-Ring                      | 1        |      |  |  |
| 201A-12                          | 81400150 | Filter                      | 1        |      |  |  |
| 201A-13                          | 81400145 | Socket bolt                 | 4        |      |  |  |
| 201A-14                          | 81400024 | Reservoir                   | 1        |      |  |  |
| 201A-15                          | 420148   | Cup head bolt with washer   | 4        |      |  |  |
| 201A-16                          | 81400066 | Cover of capacitor          | 2        |      |  |  |
| 201A-17                          | 81400130 | Start capacitor             | 1        |      |  |  |
| 201A-17A                         | 81400088 | Run capacitor               | 1        |      |  |  |
| 201A-18                          | 81400180 | Rubber gasket               | 2        |      |  |  |
| 201A-19                          | 420148   | Cup head bolt with washer   | 2        |      |  |  |
| 201A-20                          | 81400050 | Cover of motor terminal box | 1        |      |  |  |
| 201A-21                          | 81400045 | Push button                 | 1        |      |  |  |
| 201A-22                          | 81400044 | Check valve                 | 1        |      |  |  |
| 201A-23                          | 81400075 | Release valve               | 1        |      |  |  |
| 201A-24                          | 81400117 | Handle for release valve    | 1        |      |  |  |
| 201A-25                          | 81400181 | Washer                      | 1        |      |  |  |
| 201A-26                          | 81400182 | Hex Nut                     | 1        |      |  |  |
| 201A-27                          | 81400041 | Gear pump                   | 1        |      |  |  |
| 201A-28                          | 81400084 | Oil return pipe             | 1        |      |  |  |
| 201A-29                          | 81400113 | Filler cap                  | 1        |      |  |  |