

## **HYDRAULIC TROLLEY JACK**

### **Operating Manual**

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#### **CAUTION**

**THIS JACK IS DESIGNED FOR LIFTING PURPOSES ONLY.  
AFTER JACKING, ALWAYS USE SAFETY STANDS TO SUPPORT  
THE LOAD BEFORE MAKING REPAIRS. FOR YOUR SAFETY, DO  
NOT OVERLOAD BEYOND RATED CAPACITY.**

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# Owner's Assembly and Operating Manual

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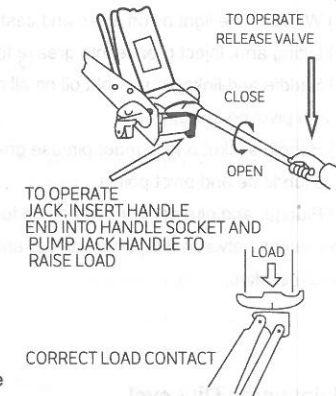
# OPERATING INSTRUCTIONS

## IMPORTANT:

Sometimes during shipment and handling, the air gets into the hydraulic system, causing poor lifting performance. Bleed any air from the system by fully opening the release valve (turn handle counter-clockwise), then, loosen the screw on the pump (item 10 as shown on the power unit), operate the Lifting Handle rapidly several times.

## Lifting Vehicle

- 1.) Twist the jack handle completely clockwise. SLOWLY pump handle until lifting saddle just begins to contact support area on the underside of vehicle.
- 2.) Inspect the position of the lifting saddle beneath the support area, making sure it is centered and properly engaging support area.
- 3.) Continue pumping handle until the vehicle is lifted to the desired height. Pay attention to lifting saddle position as the vehicle is being raised to be sure there is no danger of the support area slipping off or lifting from the saddle.
- 4.) Place jack stands under additional vehicle support areas.
- 5.) SLOWLY twist jack handle counterclockwise to ease vehicle down onto jack stands.



## Working on Vehicle

Any vehicle being supported by a jack or jack stands creates a potentially hazardous working environment. Do not move or roll a jack that is supporting a vehicle. Never place any part of your body beneath a vehicle supported by a jack. Be careful of forces applied to vehicle such as torque on a nut or bolt. These forces could cause vehicles to become unstable on jack stands if jack stands are not properly placed. Do not turn vehicle ignition or attempt to start any vehicle supported by jack or jack stands.

## Lowering Vehicle

Before lowering vehicle, be sure the area under and near vehicle is clear of all persons and obstructions.

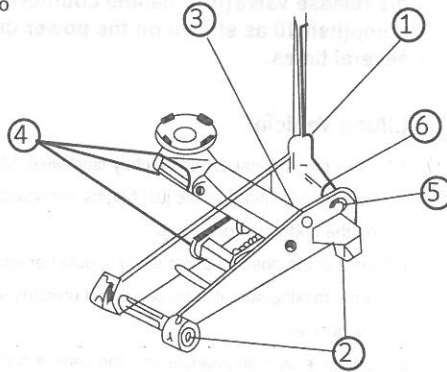
- 1.) Re-position jack under same support area used to lift vehicle.
- 2.) Twists handle completely clockwise. Pump handle until lifting saddle just makes contact with support area under vehicle.
- 3.) Check to be sure lifting saddle is centered under support area. Slowly pump handle to lift vehicle off from jack stands.
- 4.) Remove jack stands, setting them aside, well clear of vehicle.
- 5.) With firm grip on jack handle, SLOWLY twist handle counterclockwise until jack just begins to lower.
- 6.) Carefully control speed of descending vehicle. Lowering a vehicle too fast can cause property damage or injury.

## MAINTENANCE AND STORAGE

### Lubricating

Moving parts on jack should be lubricated occasionally with a light machine oil to maintain efficient operation. Apply oil to joints on lift arm hinges, push rods, handle base, rear caster wheels, front roller, etc. (refer to right picture for location of these parts).

- 1.) Handle: use light oil on moving parts and lightly grease the handle at the point it fits into the handle socket.
- 2.) Wheels: use light oil on axles and caster bearings.
- 3.) Lifting arm: Inject grease into grease fitting.
- 4.) Saddle and linkage: use light oil on all moving and pivoting parts.
- 5.) Handle socket and plunger pin: use grease to lubricate and pivot points.
- 6.) Plunger and plunger pin: use grease to lubricate the connection between the pump plunger and pin in the handle socket.



### Maintaining Oil Level

#### Important Note:

When adding or replacing oil, always use a good grade Hydraulic Jack Oil. Avoid mixing types of oil. DO NOT use Brake Fluid, Alcohol, Glycerin, Detergent, Motor Oil or Dirty Oil, Improper fluid can cause serious internal damage to Jack.

#### Adding Oil:

With saddle fully lowered & jack on level ground, remove Air Vent Valve. Oil level should be approx 12 mm below valve hole. If low, add oil as needed then close air vent valve.

#### Replacing Oil:

For better performance & longevity, replace oil supply once a year. To drain oil, open Air Vent Valve and loosen the release Valve by turning handle counterclockwise. BE VERY CAREFUL not to permit dirt or foreign matter to get into the system. Close release valve by turning handle clockwise, fill with good grade Hydraulic Jack Oil close Air Vent Valve wipe away any spilt fluid. Test jack before lifting a load.

#### Cleaning

Jack should be wiped clean with soft cloth only. Do not use gasoline, kerosene, or other such solvents or any abrasive cleanser as cleaning agents and solvents will cause deterioration of the hydraulic seals.

### Storage

Before storage, twist handle 1-1/2 turns counterclockwise to release pressure in hydraulic cylinder. Leave handle in this position. Store jack level, in a clean environment preferably indoors, in a dry area to protect jack from moisture.

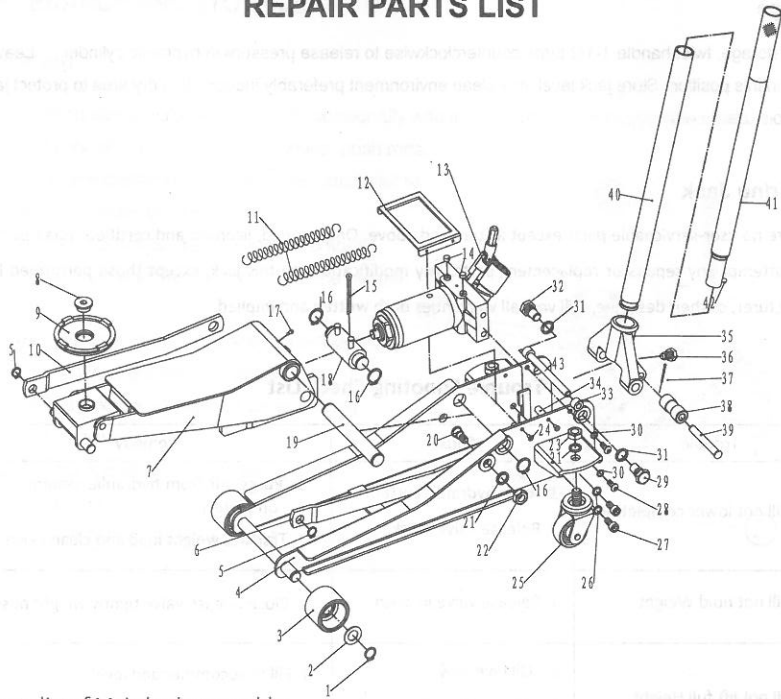
### Repairing Jack

There are no user-serviceable parts except as outlined above. Only trained, licensed and certified repair personnel should attempt any repairs or replacement parts. Any modifications to this jack, except those performed by the manufacturer, or their designee, will void all warranties both written and implied.

### Trouble Shooting Check List

Trouble	Cause	Remedy
Jack will not lower completely	1. Air in hydraulic system 2. Release valve stuck	1. Purge air from hydraulic system completely 2. Transfer weight load and clean valve
Jack will not hold Weight	1. Release valve in open	1. Close release valve tightly weight position
Jack wil not lift full Height	1. Oil level low 2. Air in hydraulic system	1. Fill to recommended level 2. Purge air from hydraulic system
Weak lifting	1. Air in hydraulic system 2. Dirty oil 3. Release valve not completely closed	1. Purge air from hydraulic system 2. Change oil. Use SAE 5W 3. Close release valve ightly
Jack wil not lift	1. Excessive weight 2. Release valve in open to higher capacity jack position 3. Oil level low	1. Decrease weight or change 2. Turn valve clockwise and tighten 3. Fill to recommended level

## REPAIR PARTS LIST

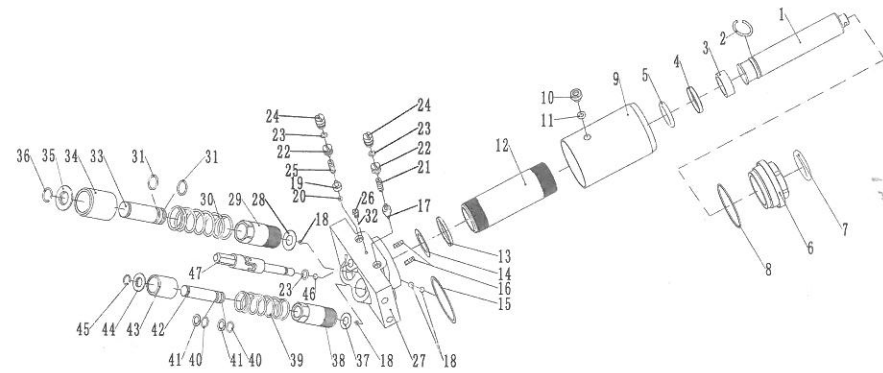


1. Parts list of Main body assembly

No.	Description	Qty
1	Retaining ring	2
2	Flat washer	2
3	Front wheel	2
4	Side plate	1
5	Ring	2
6	Linkage assembly left	1
7	Lifting arm assembly	1
8	Core axis	1
9	Saddle	1
10	Linkage assembly right	1
11	Tension spring	2
12	Cover plate	1
13	Release valve assembly	1
14	Safety cover	2
15	Split pin	1
16	Ring	4
17	Grease fitting	1
18	Linkage assembly	1
19	Lifting arm axis	1
20	Linkage bolt	2
21	Lock washer	4
22	Thin nut	2

No.	Description	Qty
23	Nut	2
24	Self tapping screw	4
25	Back wheel assembly	2
26	Lock washer	4
27	Inner hexagon bolt	4
28	Inner hexagon bolt	4
29	Bolt	1
30	Lock washer	4
31	Lock washer	2
32	Bolt	1
33	Retaining ring	2
34	Stiffener	2
35	Handle socket	1
36	Bolt	1
37	Plunger pin	1
38	Roller	1
39	Axis pin	1
40	Lower Handle	1
41	Upper Handle	1
42	Spring pin	1
43	Limit Rod	1

## REPAIR PARTS LIST POWER UNIT ASSEMBLY



2. Parts list of Power unit assembly

No.	Description	Qty
1	Piston rod	1
2	Ring	1
3	Bearing ring	1
4	Bowl washer	1
5	O-ring	1
6	Upper Cap	1
7	O-ring	1
8	Nylon ring	1
9	Out lining	1
10	Screw	1
11	O-ring	1
12	Oil cylinder	1
13	Nylon ring	1
14	Copper washer	1
15	Nylon ring	1
16	Strainer	1
17	Ball	1
18	Ball	5
19	Bal valve seat	2
20	Cone valve	1
21	Safety valve spring	1
22	Pressure adjusting screw	2
23	O-ring	3
24	Safety valve screw	2

No.	Description	Qty
25	Safety valve spring	1
26	Outer hexagon bolt	1
27	Valve body	1
28	Copper washer	1
29	Pump cylinder	1
30	Pressure spring	1
31	O-ring	2
32	Split washer	2
33	Pump core	1
34	Cylinder liner	1
35	Cover plate	1
36	Steel wire ring	1
37	Copper sealing washer	1
38	Pump cylinder	1
39	Pressure spring	1
40	O-ring	2
41	Split washer	2
42	Pump core	1
43	Cylinder liner	1
44	Cover plate	1
45	Steel wire ring	1
46	Ball	1
47	Valve rod	1

