

Central Hydraulics®

2-1/4 TON FLOOR JACK



ASSEMBLY AND OPERATING INSTRUCTIONS

Diagrams within this manual may not be drawn proportionally.
Due to continuing improvements, actual product may differ slightly from the product described herein.

Distributed exclusively by Harbor Freight Tools®.

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**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.**

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For technical questions or replacement parts, please call 1-800-444-3353.

SPECIFICATIONS

Capacity	4500 lb.
Minimum Saddle Height	5-1/4"
Maximum Saddle Height	18-1/4"

Save this manual

You will need the manual for the safety warnings and cautions, assembly instructions, operating procedures, maintenance procedures, trouble shooting, parts list, and diagram. Keep your invoice with this manual. Write the Invoice number on the inside of the front cover. Keep both this manual and your invoice in a safe, dry place for future reference.

SAFETY WARNING & CAUTIONS

WARNING: When using equipment, basic safety precautions should always be followed to reduce the risk of personal injury and hazards due to over pressurization. **READ ALL INSTRUCTIONS BEFORE USING THIS TOOL!**

1. **KEEP WORK AREA CLEAN.** Cluttered areas invite injuries.
2. **OBSERVE WORK AREA CONDITIONS.** Do not use tools in damp, wet, or poorly lit locations. Do not expose to rain. Keep work area well lit.
3. **KEEP CHILDREN AWAY.** Children must never be allowed in the work area. Do not let them handle machines, tools or hoses.
4. **STORE IDLE EQUIPMENT.** When not in use, tools must be locked up in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **DO NOT FORCE THE TOOL.** It will do the job better and more safely at the rate for which it was intended. Do not use inappropriate attachments in an attempt to exceed the tool's capacities.
6. **USE THE RIGHT TOOL FOR THE JOB.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. Do not use a tool for a purpose for which it was not intended.
7. **DRESS PROPERLY.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Non-skid footwear is recommended. Wear restrictive hair covering to contain long hair.
8. **USE EYE AND EAR PROTECTION.** Always wear ANSI approved chemical splash goggles when working with chemicals. Always wear ANSI approved impact safety goggles at other times. Wear a full face shield if you are producing metal filings or wood chips. Wear an ANSI approved dust mask or respirator when working around metal, wood, and chemical dusts and mists.

9. DO NOT OVERREACH. Keep proper footing and balance at all times. Do not reach over or across running machines.
10. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect compressor's cord periodically and, if damaged, have them repaired by an authorized technician. Inspect all hoses for leaks prior to use. The handles must be kept clean, dry, and free from oil and grease at all times.
11. REMOVE ADJUSTING KEYS AND WRENCHES. Make it a habit to check that keys and adjusting wrenches are removed from the tool or machine work surface before plugging it in.
12. STAY ALERT. Watch what you are doing, use common sense. Do not operate any tool when you are tired.
13. CHECK DAMAGED PARTS. Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn on and off properly.
14. REPLACEMENT PARTS AND ACCESSORIES. When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.
15. DO NOT OPERATE TOOL IF UNDER THE INFLUENCE OF ALCOHOL OR DRUGS. Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
16. MAKE SURE ALL EQUIPMENT IS RATED TO THE APPROPRIATE CAPACITY. Do not lift more than rated on the Floor Jack.
17. DO NOT ATTEMPT TO MOVE JACK WHEN IT IS UNDER LOAD.
18. DO NOT ADJUST SAFETY VALVE. DO NOT MAKE ALTERATIONS OF ANY KIND TO DESIGN OR STRUCTURE OF JACK.

UNPACKING

Remove your 2 1/4 TON FLOOR JACK from the packaging materials.

When unpacking, check to make sure the following parts are included. All sizes listed below are approximate. If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual.

WARNING:
The Floor Jack is HEAVY.
Use caution when lifting
out of box.

Item#	Description
N/A	Jack
#35	Lower Handle
#36	Upper Handle
N/A	Replacement O-rings

GENERAL

Always use good quality hydraulic jack oil when adding or replacing the oil in your Floor Jack. Do not mix different types of oils together. When filling the Floor Jack with oil, do not permit dirt or any other substance to enter the hydraulic system.

ASSEMBLY

You will need a 13/32" and a 11/16" wrench to complete assembly.

Step 1: Take LOWER HANDLE (#35) and remove the HEX HEAD SCREW (#37).

Step 2: Insert the fitted end of the UPPER HANDLE (#36) into LOWER HANDLE. Rotate HANDLES until the bolt holes line up in the center of the Handle Assembly.

Step 3: Insert HEX HEAD SCREW and tighten with a 13/32" wrench as shown in Figure 1.

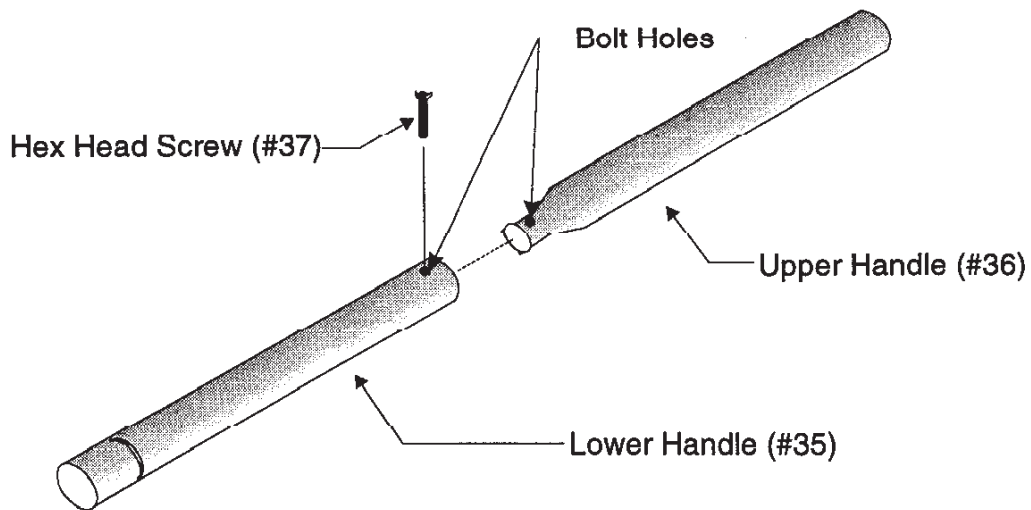


Figure 1 -- Handle Assembly

Step 4: Remove BOLT (#23) from the HANDLE SOCKET (#38).

Step 5: Insert Handle Assembly into HANDLE SOCKET and turn Handle Assembly clockwise until it engages the pressure release gears located underneath the HANDLE SOCKET.

Step 6: Thread BOLT into HANDLE SOCKET and tighten with 11/16" wrench as shown in Figure 2

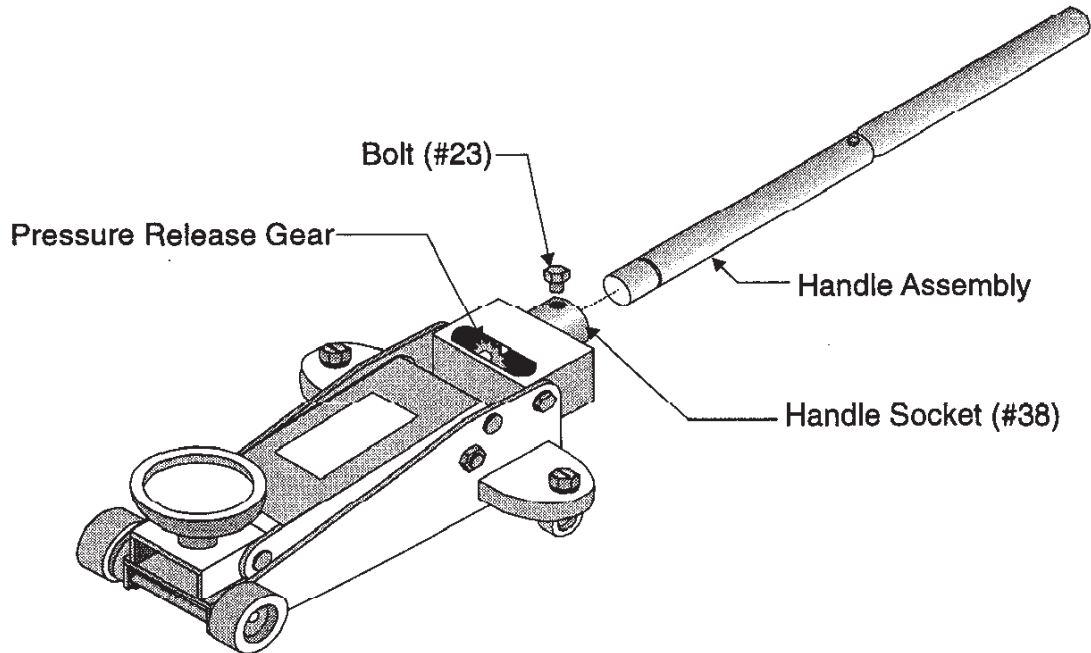


Figure 2 -- Jack Assembly

Your Floor Jack is ready for use.

OPERATION

Step 1: Twist the Handle Assembly clockwise to close the pressure release valve as shown in Figure 3.

CAUTION:
Make sure you do not overload your Floor Jack. Rated capacity is 4500 pounds.

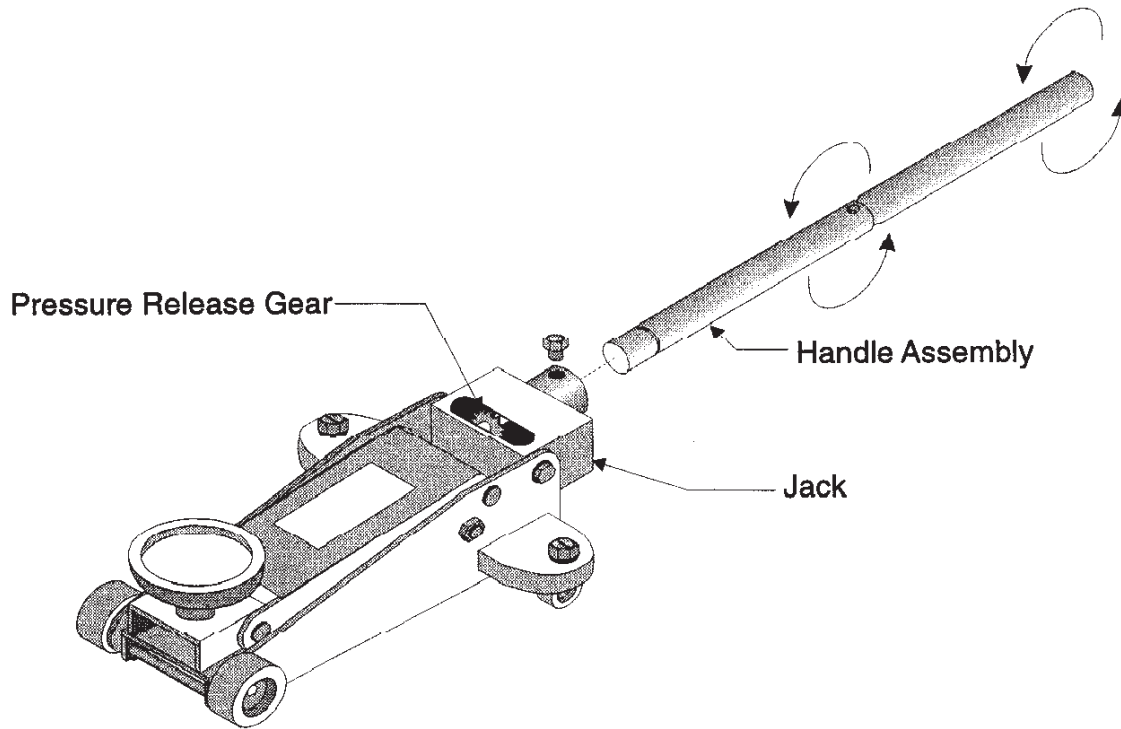


Figure 3 -- Closing Pressure Release Valve

Step 2: Manuver the Floor Jack underneath the vehicle. Check the vehicle's Owners Manual for proper jacking points. Do not lift vehicle by the body panels.

Step 3: Begin jacking by lowering the Handle Assembly as shown in Figure 4.

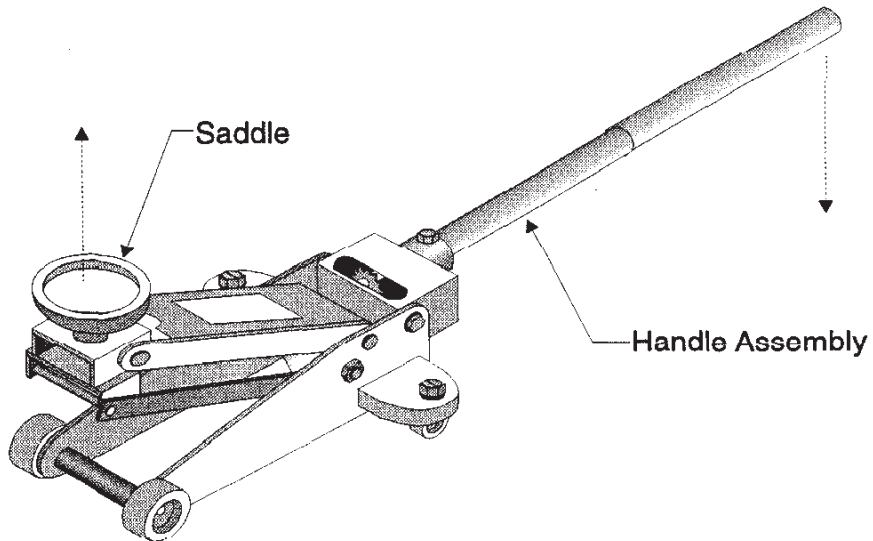


Figure 4 -- Lifting the Vehicle

Step 4: Lift Handle Assembly as high as clearance allows.

Step 5: Repeat Steps 3-4 until vehicle is at desired height. Do not overextend the jack.

WARNING:
Use jack stands to support vehicle. Never work around or
under a vehicle supported only by the Floor Jack.

Step 6: Place jack stands underneath vehicle at specified points. Refer to the vehicle's Owners Manual for proper jack stand placement locations.

Step 7: Slowly twist Handle Assembly counterclockwise. This will lower the vehicle onto the jack stands.

WARNING:

Watch for movement of vehicle or jack stands as vehicle is lowered. If any movement occurs, jack vehicle up and adjust jack stands properly.

Step 8: Completely lower the Floor Jack and remove from underneath the vehicle.

CAUTION:

When not in use, make sure pressure is released by turning Handle Assembly fully counterclockwise. This will prolong the life of the jack.

Step 9: To make sure vehicle is stable, stand away and attempt to rock the vehicle. If movement is detected, jack up the vehicle and adjust jack stands properly. Test again.

Maintenance

Bleeding the Floor Jack

Step 1: Place the Floor Jack on a clear section of floor.

Step 2: Open the pressure release valve by turning the Handle Assembly fully counterclockwise.

Warning:
Make sure you release jack pressure (Step 2) before proceeding

Step 3: Remove the Oil Fill Plug (shaped like a nipple)-see location in Figure 5 below.

Step 4: Hold the Saddle down and pump the Handle Assembly rapidly several times as shown in Figure 5.

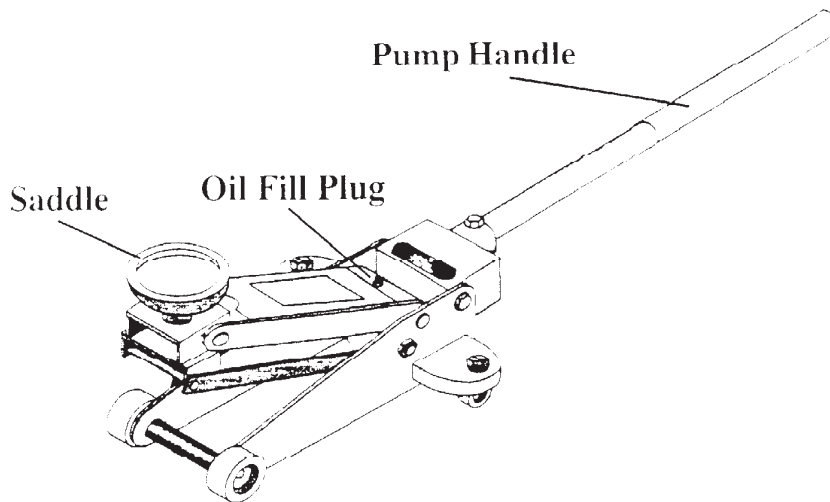


Figure 5 -- Bleeding the Jack

Step 5: Close the pressure release valve by turning the Handle Assembly fully clockwise.

Step 6: Re-insert the Oil Fill Plug.

Seal Replacement

A replacement O-Ring Seal and Backing Ring are included if you need to have your jack serviced. If you need to have your jack serviced, take it to a qualified mechanic along with your O-Ring Seal and Backing Ring. The Floor Jack cannot be user serviced.

Lubrication

Lubricate the following points before first use and at least twice per month (more often during heavy use) as shown in Figure 6.

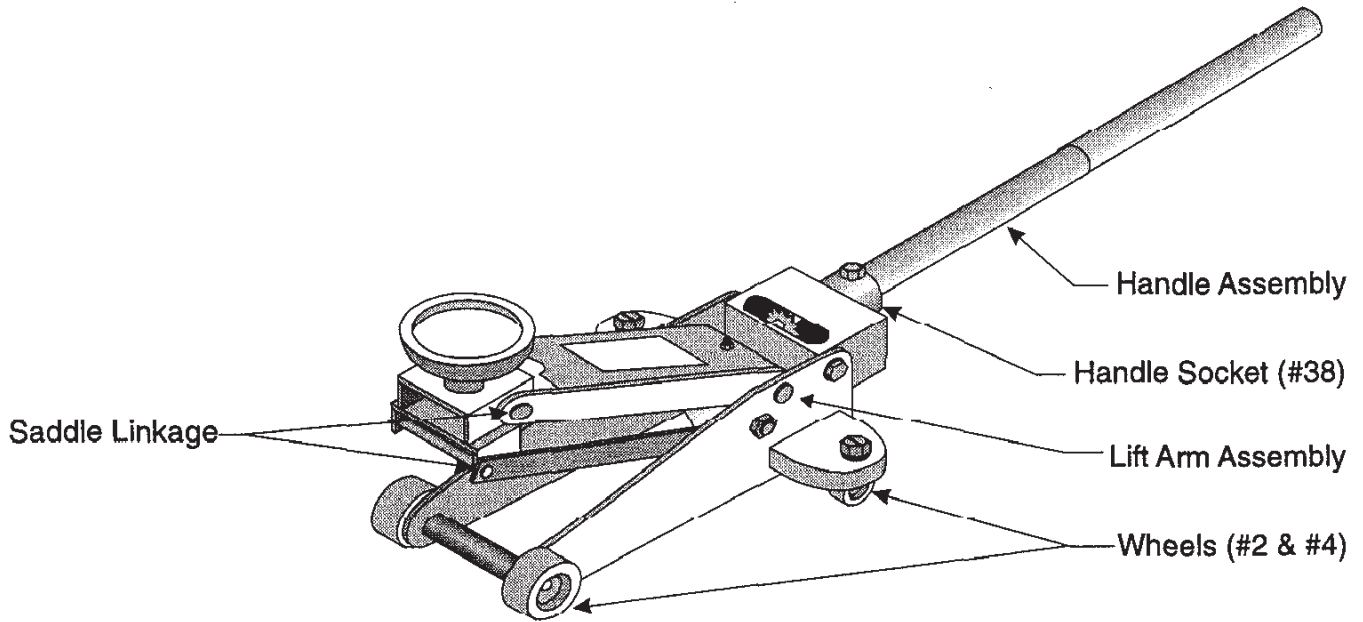


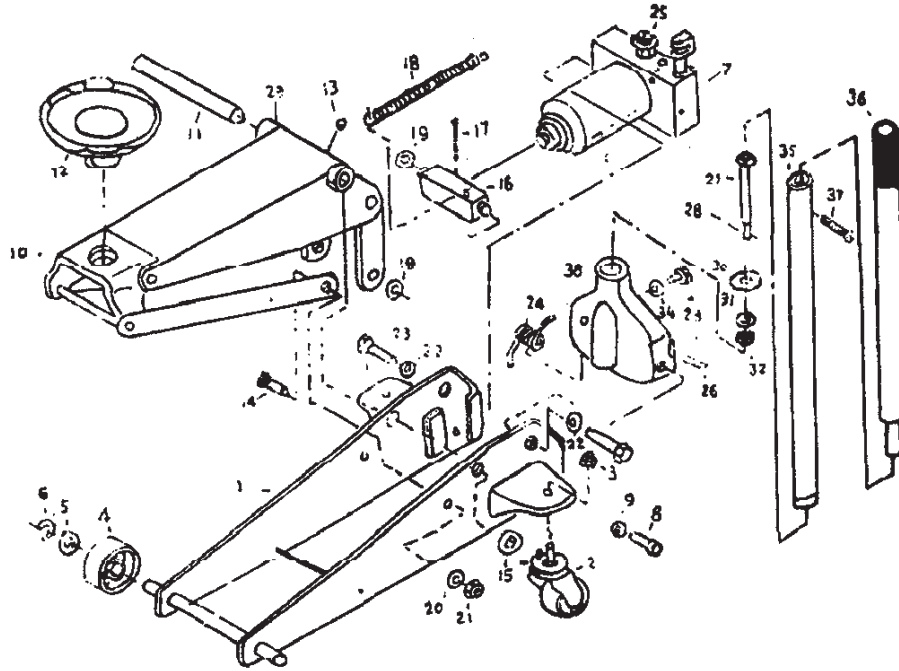
Figure 6 -- Lubrication Points

PARTS LIST

Item#	Description	Qty
1	Side Plate Weldment	1
2	Caster Assembly	2
3	Locknut	2
4	Wheel	2
5	Washer (Axle)	2
6	Retaining Ring	2
7	Power Unit Assembly	1
8	Socket Headcap Screw	2
9	Lock Washer	2
10	Linkage Assembly	1
11	Shaft Arm	1
12	Saddle	1
13	Grease Fitting	1
14	Bolt Link	2
15	Retaining Ring	1
16	Block Link (Ram)	1
17	Cotter Pin	1
18	Return Spring	1
19	Retaining Ring	2

Item#	Description	Qty
20	Lock Washer	2
21	Hex Nut	2
22	Lock Washer	2
23	Bolt	2
24	Torsion Spring	1
25	Release Valve Assembly	1
26	Plunger Pin	1
27	Gear Shaft	1
28	Cotter Pin	1
29	Lifting Arm Assembly	1
30	Gear Handle Socket	1
31	Lock Washer	1
32	Hex Nut	1
33	Handle Bolt	1
34	Spacer	1
35	Handle Lower	1
36	Handle Upper	1
37	Hex Head Screw	1
38	Handle Socket	1

ASSEMBLY DIAGRAM



POWER UNIT ASSEMBLY DIAGRAM

