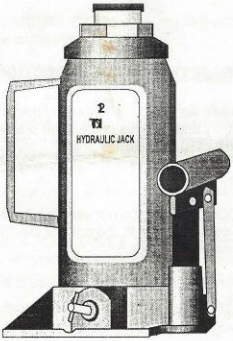
CENTRAL HYDRAULICS®

# 12 TON HYDRAULIC JACK

## Model 00561

**ASSEMBLY and OPERATING INSTRUCTIONS**




Distributed Exclusively by
HARBOR FREIGHT TOOLS

3491 Mission Oaks Blvd. / Camarillo, CA 93011



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

## SPECIFICATIONS

| | |
|---|---|
| Capacity | 12 Tons |
| Minimum Height | 9" |
| Maximum Height | 16-1/2" |
| Weight | 20 lbs. |

## 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 pneumatic 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. Don't expose to rain. Keep work area well lit. Do not use electrically powered air compressors in the presence of flammable gases or liquids.
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 ABUSE THE POWER CORD. Do not yank compressor's cord to disconnect it from the receptacle. Do not carry tools by the cord.

10. DO NOT OVERREACH. Keep proper footing and balance at all times. Do not reach over or across running machines.

11. 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.

12. 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.

13. AVOID UNINTENTIONAL STARTING. Do not carry any tool with your finger on the trigger, whether it is connected to the compressor or not.

14. STAY ALERT. Watch what you are doing, use common sense. Do not operate any tool when you are tired.

15. 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.

16. 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.

17. 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.

18. DRAIN COMPRESSOR EVERY DAY. Do not allow moisture to build up inside the compressor. Do not allow compressor to sit pressurized for longer than one hour.

19. MAKE SURE ALL EQUIPMENT IS RATED TO THE APPROPRIATE CAPACITY. Make sure that regulator is set at least 10 PSI lower than the lowest rated piece of equipment you are using.

## UNPACKING

When unpacking, check to see if any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual.

Your 12 Ton Hydraulic Jack comes assembled.

## ASSEMBLY

***Handle Assembly***

Step 1: Remove the SLENDER HANDLE (#23), BIG HANDLE (#24), and the HANDLE (#25) from the plastic bag.

Step 2: Insert the oval end of the SLENDER HANDLE into one end of the BIG HANDLE.

Step 3: Insert the oval end of the HANDLE into the other end of the BIG HANDLE as shown in Figure 1. Tap the complete assembly lightly on one end with a hammer to tighten the fit.

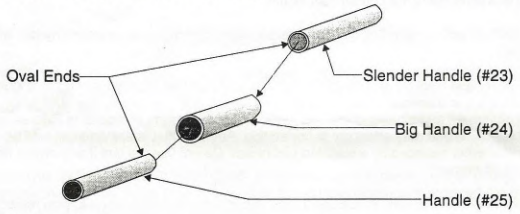



***Figure 1 -- Handle Assembly***

Your 12 Ton Jack and Handle Assembly are ready for use.

## OPERATION

***Raising the Object***

Step 1: Determine the weight of the object you intend to lift (e.g. machinery, vehicle, equipment). Make sure your Hydraulic Jack is rated higher than the total weight of the object and that there are no cracks or damage to your Jack.

Step 2: Make sure the object you intend to lift can be safely lifted and will not be damaged or tip over.

Step 3: Place the Jack under the lifting point for your object. This will vary with the object. If you cannot place the Jack under the object, use a smaller Jack. Do not lift the object and then place the Jack underneath as you will not be able to remove the Jack after lowering the load.

Step 4: If necessary, turn the ELEVATING SCREW (#1) counterclockwise to raise the ELEVATING SCREW up closer to the lifting point as shown in Figure 2. This will allow the maximum amount of lifting height.

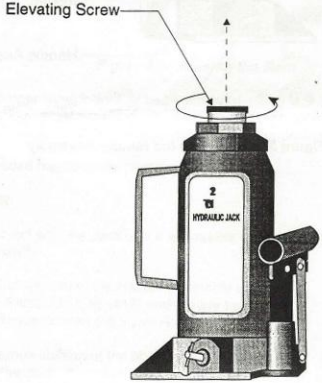



***Figure 2 -- Raising the Elevating Screw***

Step 5: Place the notched end of the Handle Assembly on the VALVE RELEASE SCREW (#12) and turn clockwise to close the Valve Release (see Figure 3).

Step 6: Place one end of the Handle Assembly into the PLUNGER AND FULCRUM ASSEMBLY (#22) as shown in Figure 3.

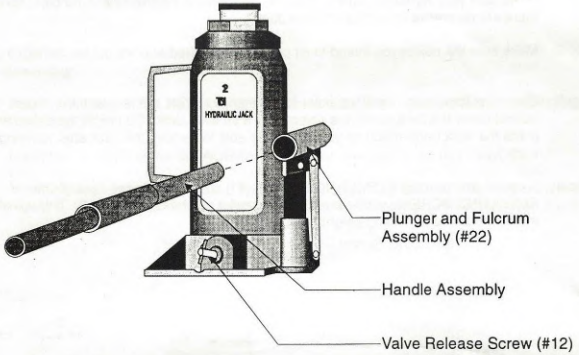



***Figure 3 -- Inserting the Handle Assembly***

Step 7: Begin lifting by pumping the Handle Assembly as shown in Figure 4.

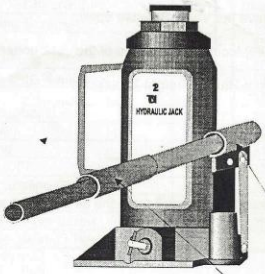



*Figure 4 -- Raising the Ram*

Step 8: When the proper lifting height as been achieved, place jack stands underneath the object and lower and remove the Hydraulic Jack. Do not support the object by the Jack for an extended period of time. Never work on an object supported solely by a Jack!

Step 9: Perform needed maintenance or movement.

***Lowering the Object***

Step 1: Raise the object with the Jack until it is possible to remove the supports or jack stands from underneath.

Step 2: Place the notched end of the Handle Assembly on the VALVE RELEASE SCREW (#12) and **slowly** turn counterclockwise to open the Valve Release.

**WARNING**
Do not open the Valve Release quickly when the Jack is supporting a load.

Step 3: If any dangerous shifting of the object occurs during lowering of the Jack, immediately close the Valve Release by turning the VALVE RELEASE SCREW clockwise. Readjust the load and continue when safe.

Step 4: When the RAM (#5) has been completely lowered inside the Jack Assembly, remove the Jack from underneath the object.

Step 5: If necessary, turn the ELEVATING SCREW (#1) clockwise to lower it into the RAM.

Step 6: Store your Jack with the Valve Release open. This will prolong the life of your Jack.

## MAINTENANCE

If poor jacking performance is encountered, perform the following Steps before you continue use.

Step 1: Lower the Jack completely and leave the Valve Release open.

Step 2: Remove the OIL FILLER PLUG (#9) located on the side of the Jack under the CAP (#2).

Step 3: Fill with Hydraulic Oil (available from Harbor Freight Tools) until the Oil reaches the top of the Oil Fill Hole.

Step 4: Raise the RAM (#5) to the maximum height.

Step 5: Open the Valve Release.

Step 6: Push the RAM down as fast as possible. This will push the air out of the system.

Step 7: Insert the OIL FILLER PLUG.

Your Jack is ready for continued use.

## PARTS LIST

| Item# | Description | Qty |
|---|---|---|
| 1 | Elevating Screw | 1 |
| 2 | Cap | 1 |
| 3 | Ram O-Ring | 1 |
| 4 | Top Sealing Gasket | 1 |
| 5 | Ram | 1 |
| 6 | Ram Rubber Cup | 1 |
| 7 | Cylinder | 1 |
| 8 | Housing | 1 |
| 9 | Oil Filler Plug | 1 |
| 10 | Lower Sealing Gasket | 1 |
| 11 | Base | 1 |
| 12 | Valve Release Screw | 1 |
| 13 | Release Valve O-Ring | 1 |

| Item# | Description | Qty |
|---|---|---|
| 14 | Release Valve Ball Bearing | 1 |
| 15 | Pump Valve Assembly | 1 |
| 16 | Pump Cylinder Outer O-Ring | 1 |
| 17 | Pump Cylinder Washer | 1 |
| 18 | Pump Cylinder Inner O-ring | 1 |
| 19 | Pump Cylinder | 1 |
| 20 | Pin | 1 |
| 21 | Split Cotter Pin | 1 |
| 22 | Plunger and Fulcrum Assembly | 1 |
| 23 | Slender Handle | 1 |
| 24 | Big Handle | 1 |
| 25 | Handle | 1 |
| | | |

## ASSEMBLY DIAGRAM