



FLOOR JACK - 2 TON

Model 36119

SET UP 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.

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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.

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SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

CAUTION

CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

GENERAL SAFETY RULES



WARNING! Read all instructions

Failure to follow all instructions listed below may result in serious injury.

The term “tool” in all of the warnings listed below refers to your Floor Jack.

SAVE THESE INSTRUCTIONS

1. Work area safety

- a. Keep work area clean and well lit. *Cluttered or dark areas invite accidents.*
- b. **Keep children and bystanders away while operating. Distractions can cause you to lose control.**

3. Personal safety

- a. Stay alert, watch what you are doing and use common sense when operating this Floor Jack. Do not use while you are tired or under the influence of drugs, alcohol or medication. *A moment of inattention while operating may result in serious personal injury.*
- b. **Use safety equipment. Always wear ANSI- approved eye protection. Safety equipment such as non-skid safety shoes used for appropriate conditions will reduce personal injuries.**
- c. Do not overreach. Keep proper footing and balance at all times. *This enables better control of the Floor Jack in unexpected situations.*
- d. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. *Loose clothes, jewelry or long hair can be caught in moving parts.*

4. Hydraulic tool use and care

- a. Do not force the Floor Jack. Use the correct Tool. *The correct tool will do the job better and safer at the rate for which it was designed.*
- b. **Store idle tools out of the reach of children and do not allow persons unfamiliar with this Floor Jack or these instructions to operate. Floor Jacks can be dangerous in the hands of untrained users.**
- c. Maintain this Floor Jack. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect this tool's operation. If damaged, have it repaired before use. *Many accidents are caused by poorly maintained tools.*
- d. Use this Floor Jack in accordance with these instructions and in the manner intended, taking into account the working conditions and the work to be performed. *Use of this Floor Jack for operations different from those intended could result in a hazardous situation.*

5. **Service**

- a. Have your Floor Jack serviced by a qualified repair person using only identical replacement parts. *This will ensure that the reliability and safety of this tool is maintained.*

SPECIFIC SAFETY RULES

1. **DO NOT** exceed the maximum lift capacity of 2 Tons/4,000 lb. for this Floor Jack.
2. Prior to using, read and understand all warnings, safety precautions, and instructions outlined in the manufacturer's owners manual for the particular vehicle you will be working with.
3. **DO NOT** use the Floor Jack with the vehicle's engine running. Make sure to place the vehicle's transmission in "PARK" (if automatic), or "1st GEAR" (if manual). Then set the emergency brake, and block the tires opposite the tire being lifted.
4. Use this Floor Jack only on vehicles whose frames have lifting points (on it's seam or frame) capable of aligning with the Saddle (19) of the Floor Jack and the saddle(s) of the jack stands.
5. Make sure this Floor Jack is used only on a dry, oil/grease free, flat, level, ground surface capable of supporting the weight of the Floor Jack, the jack stand(s) (not supplied), the vehicle, and/or any other tool and equipment (not supplied) but required for the job.
6. When lifting only one wheel of a vehicle, make sure to support the load immediately with a jack stand (not supplied) placed under the side of the vehicle being lifted. Align the saddle of the jack stand directly under the vehicle's *seam* (manufacturer's recommended lifting point).
7. When lifting the entire front end or rear end of a vehicle, make sure to support the load immediately with two jack stands (not supplied). Align the saddles of the jack stands directly under the vehicle's *frame* (manufacturer's recommended lifting points). Make sure each jack stand is adjusted to the same height.
8. **NEVER** work under a vehicle without proper support from jack stands and making sure the jack stands are stable.
9. Avoid dangerous oncoming traffic. Always use the Floor Jack as far away from the roadside as possible.
10. **DO NOT** allow anyone inside the vehicle while using the Floor Jack. Keep all bystanders a safe distance away from the vehicle.
11. **NEVER** leave the Floor Jack unattended while it is under a load.

12. **ALWAYS** keep hands, fingers, and feet away from the moving parts of the Floor Jack when lifting or releasing a load. Remain well clear of the Floor Jack when raising or lowering a vehicle.
13. **DO NOT** use the Floor Jack or jack stands (not supplied) as a permanent stand/support for a vehicle. Use the Floor Jack and/or jack stands only while making repairs. Remove immediately after work is completed.
14. **NEVER** support both ends of the vehicle at the same time.
15. Before lowering the Floor Jack, make sure tool trays (not supplied), jack stands (not supplied), and all other tools and/or supplies are removed from under the vehicle.
16. If changing a tire, it is easier if the lug nuts are slightly loosened *before* raising the tire off the ground.
17. When using jack stands (not supplied), be sure to insert lock pins (not supplied) into the triangular holes located on the upper portion of the base on the jack stands.
18. This Floor Jack is **NOT** to be used for aircraft purposes.
19. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
20. This product is not a toy. Keep it out of reach of children.
21. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.



SAVE THESE INSTRUCTIONS.

SPECIFICATIONS

Weight Capacity	2-Ton/4,000 lb
Lift Range	5" to 15"
Saddle Diameter	2-1/8"
Handle Length	19-1/2"
Swivel Castors	Swivel Ball Bearing - Q'ty 2

UNPACKING

When unpacking, check to make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

SET UP INSTRUCTIONS



Read the **ENTIRE** IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Assembly

This Floor Jack comes completely assembled other than attaching the Handle (33). Insert the crimped end of the Handle (33) into the Piston Lever (A29) and twist it until the Pin on the end of the Handle (33) locks into the existing slot.

OPERATING INSTRUCTIONS



Read the **ENTIRE** IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

General Operating Instructions

1. Attach the Handle (33) following the procedure in "Assembly" section above.
2. Make sure to test the Floor Jack before using it to lift. If the Floor Jack appears to not be working properly, it may be necessary to *purge* its hydraulic system of excess air. (See "Bleeding Excess Air From Hydraulic System" in "Maintenance and Servicing" section on page 11 of this manual.) If, after purging, the Floor Jack still does not appear to be working properly, do not use the tool until it has been repaired by a qualified technician.
3. **WARNING!** Make sure the vehicle is parked on a flat, level, solid, surface safely away from oncoming traffic. Turn off the vehicle's engine. Place the vehicle's

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transmission in either “PARK” if it is automatic, or “1st GEAR” if it is manual. Set the vehicle’s emergency brake and block the wheels that are not being lifted.

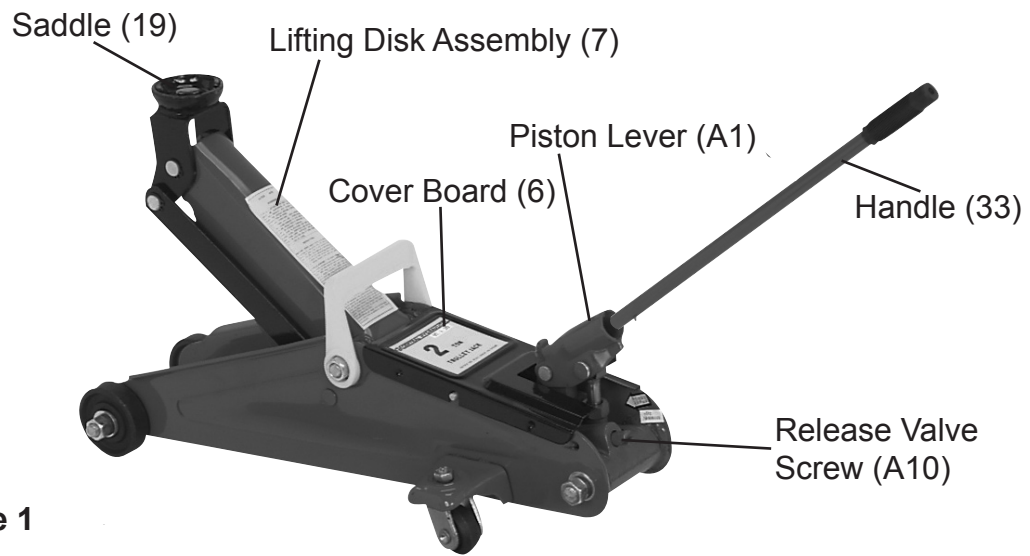


Figure 1

4. Make sure the Floor Jack is in it's lowest position. If it is not, insert the Handle (33) onto the Release Valve Screw (A10) and turn it counterclockwise. Once the Floor Jack is fully lowered, tighten the Release Valve Screw (A10) by turning it clockwise until it stops (but do not force the Release Valve Screw). (**Figure 1**).
5. Refer to the vehicle owners manual for correct location of all lifting points.
6. Carefully position the Saddle (19) under the vehicle manufacturer's recommended central lifting point. **NOTE:** (See vehicle manufacturer's owners manual for location of frame lifting points of the Front or Rear end of the vehicle.) (See **Figure 1**).
7. Insert the Handle (33) into the Piston Lever (A29), and pump the Handle (33) until the Saddle (19) has nearly reached the vehicle lifting point. The Floor Jack should be positioned at 90° to the vehicle's lifting point to insure the Saddle (19) and lifting point are in alignment. If not, reposition the Floor Jack before lifting the vehicle (see **Figure 1**).
8. To lift the vehicle, pump the handle (33) of the Floor Jack. Use smooth, full strokes for best results, until the tires clear the ground.
9. Always use jack stands (not included) when working under the vehicle. Raise the vehicle until the tires clear the ground and the jack stand could be positioned below the *seam* lifting point of the frame. Slide the jack stand to the proper lifting point. **Note:** If using two jack stands, they should both be the same size and type.

10. Raise the saddle until it just touches the vehicle. Insert a lock pin into the proper slot on the jack stand. If the pinholes do not match, raise the vehicle slightly until the pinholes do align. Insert the pin. Remove the Handle (33) and insert onto the Release Valve Screw (A10), turn it gently in a counterclockwise direction to ease the vehicle onto the jack stand. Gently rock the vehicle to insure that it is stable on the jack stand. Lower the Floor Jack completely and roll it out from under the vehicle. If the tire is to be removed, prior to lifting, put the vehicle in gear and engage the emergency brake and loosen the lug nuts. **Note:** When using two jack stands, they should both be raised to the same height.
11. **WARNING!** For proper protection, make sure lock pin(s) are *properly* inserted into the slots located on the jack stand(s) you are using. **NOTE:** Always refer to the manufacturer's manual for safety warnings and usage instructions for the jack stands you are using.
12. When using two jack stands (not supplied), insert the lower end of Handle (33) into the Release Valve Screw (A10) and *slowly* (never more than two turns) turn the Release Valve Screw (A10) counterclockwise to ease the vehicle onto the saddles of the jack stands. Shut the Release Valve Screw when the Floor Jack has cleared the vehicle.
13. When using two jack stands (not included), gently rock the vehicle to determine if it is stable. If it is not, raise the vehicle with the Floor Jack and re-position the jack stands. Otherwise, lower and remove the Floor Jack from under the vehicle.
14. When the repair work is finished, make sure to remove all tools, old vehicle parts, etc. from under the vehicle.
15. Insert the Handle (33) into the Release Valve Screw (A10) of the Floor Jack and turn it firmly clockwise. Insert the Handle (33) into the Piston Lever (32) and pump the Handle (33) to raise the vehicle slightly above the saddle of the jack stand(s). Remove the jack stand(s) (not supplied) from under the vehicle to a safe distance.
16. Remove the Handle (33) from the Hydraulic Unit Assembly (32) and insert it onto the Release Valve Screw (A10). Slowly turn the Release Valve Screw (A10) counterclockwise (never more than two full turns) to lower the vehicle to the ground (see **Figure 1**).
17. To prevent accidents, when finished using the Floor Jack, remove the Handle (33) and store the tool indoors out of children's reach.

MAINTENANCE AND SERVICING

WARNING

Risk of serious personal injury from closing scissor like parts. Be careful when performing any inspection, maintenance, or cleaning procedures.

Damaged equipment can fail, causing serious personal injury. Do not use damaged equipment. If anything abnormal occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

1. **BEFORE EACH USE**, inspect the general condition of the tool. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
2. **AFTER USE**, clean external surfaces of the tool with a cloth slightly dampened with mild detergent, or mineral spirits (paint thinner).

Checking Hydraulic Oil Level:

- a. Turn Release Valve Screw (A10) counterclockwise two full turns to allow Floor Jack to lower itself completely.
- b. With the Floor Jack in level position, remove the Oil Plug (A22).
- c. Stand the Floor Jack in a vertical position with the Hydraulic Unit Assembly (32) facing down. The oil should be level with the bottom of the Fill Hole. If it is not, add new, clean hydraulic oil (not supplied). **DO NOT OVER FILL.**
- d. Replace the Oil Plug (A22) and check the operation of the Floor Jack. If needed, purge excess air from the system.

Changing Hydraulic Oil:

- a. Should be done at lease every three years.
- b. Lower Floor Jack completely by turning the Release Valve Screw (A10) counterclockwise two full turns.
- c. Remove the Oil Plug (A22), located on top of the Oil Chamber (A21). Place an appropriate tray to catch the oil. Tip the Floor Jack on it's side to allow the oil to completely drain. NOTE: Dispose of the old hydraulic oil in accordance with local area regulations.
- d. With the Floor Jack back in the upright position, completely fill the Oil Chamber (A21) with new, clean hydraulic oil (not supplied). Replace the Filler Plug (A22).
- e. NOTE: Only purchase Hydraulic Jack Oil. Never use transmission fluid or regular motor oils as they can damage your Floor Jack.

Purging the Hydraulic System of Excess Air:

- a. If the Floor Jack operation is spongy and does not lift, the system may have accumulated air and should be purged.
- b. Purge air by opening the Release Valve Screw (A10) (turning two full turns counterclockwise), and removing the Oil Plug (A22).
- c. Check the fluid level in the Oil Chamber. If needed, add enough new clean hydraulic oil (not supplied) to completely fill the Oil Chamber.
- d. Pump the handle several times in full strokes. Close the Release Valve Screw and replace the oil fill plug. Test the Jack to verify its smooth operation.
- e. It may be necessary to repeat steps b through d until all air is purged.
- f. Once purged of air, check the fluid level in the Oil Chamber (A21) and if needed, add enough new, clean hydraulic oil (not supplied) to completely fill the Oil Chamber (A21).
- g. Replace the Oil Plug (A22).

Troubleshooting

Problem	Possible Causes	Probable Solutions
Floor Jack pump action is spongy or sluggish.	Excess air in Hydraulic Unit Assembly (32).	Purge air from Oil Chamber (A21) as directed in "Maintenance and Servicing" section on page 11 of this manual.
Floor Jack is hard to pull/push into position	Debris clogging wheels or swivel casters.	Clear dirt and debris from all wheels and casters.
Floor Jack will not hold load.	1. Low Oil Level. 2. Release Valve Screw (A10) not closed. 3. Pump Valves not sealing. 4. Air in the system.	1. Check Oil Level and add additional oil if needed. See "Checking Oil" in "Maintenance and Servicing" section on page 10 of this manual. 2. Tighten Release Valve Screw (A10). 3. Have Floor Jack serviced by qualified technician. 4. Purge air.
Handle (33) will not lower.	Broken or unhooked Tension Spring (31).	Check Tension Spring (31). Replace if necessary.

PARTS LIST FOR FLOOR JACK

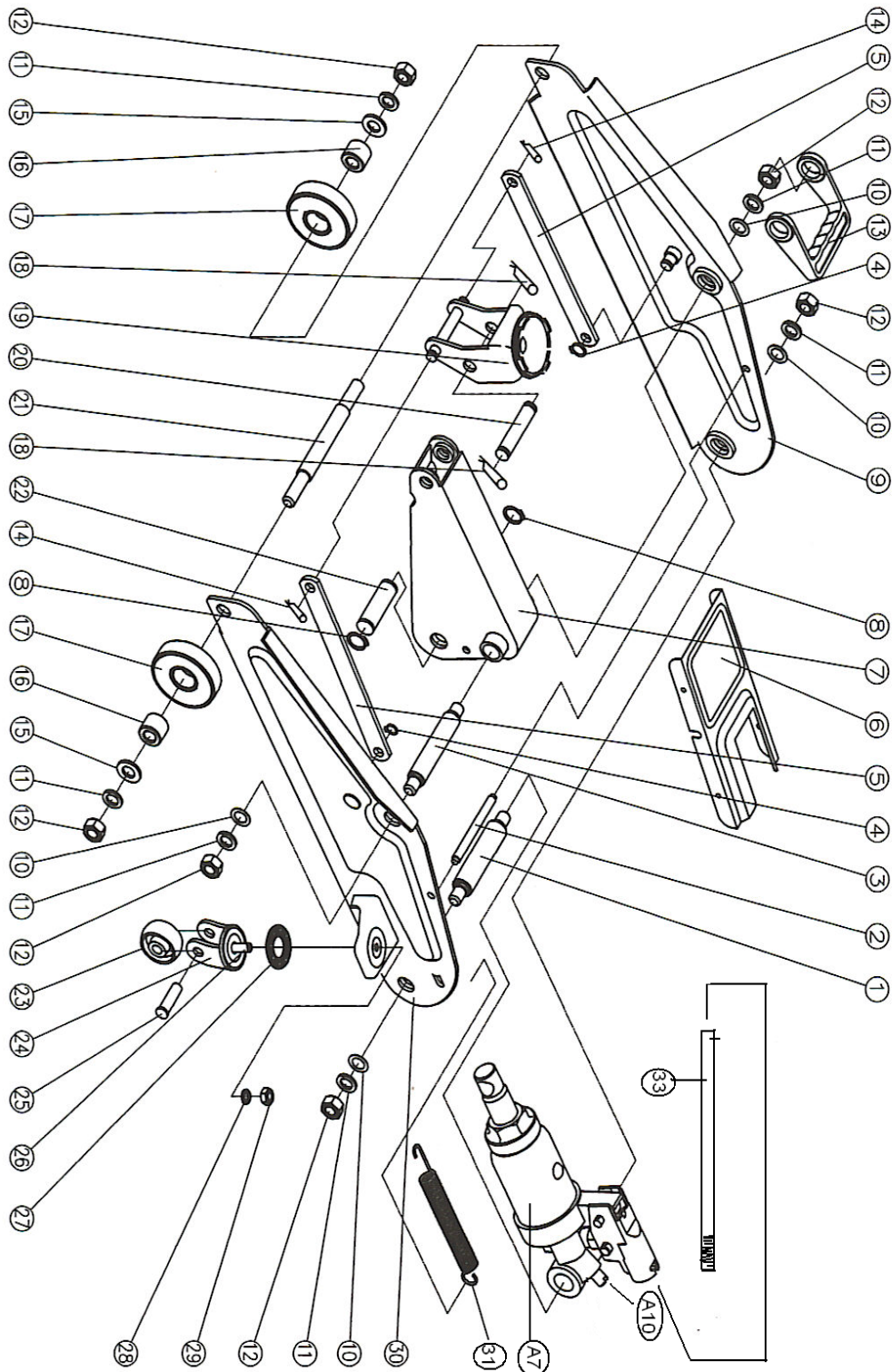
Part	Description	Q'ty	Part	Description	Q'ty
1	Back Spindle	1	18	Spring Bolt (Large)	1
2	Overarm Support	1	19	Hold Disk Assembly	1
3	Supporting Spindle	1	20	Pivot Carrier	1
4	Retaining Ring	2	21	Front Wheel Spindle	1
5	Link	2	22	Pivot Piston	1
6	Cover Board	1	23	Caster Wheel	2
7	Lifting Disk Assembly	1	24	Caster Wheel Bearing Plate	2
8	Retaining Ring	2	25	Caster Wheel Spindle	2
9	Side Member Assembly (Right)	1	26	Caster Wheel Bolt	2
10	Location Case	2	27	Frame Steel Washer (Large)	1
11	Lock Washer	5	28	Lock Washer	1
12	Nut	5	29	Nut	1
13	Grip	1	30	Side Member Assembly (Left)	1
14	Spring Bolt (Small)	1	31	Tension Spring	1
15	Flat Washer	2	32	Hydraulic Unit Assembly	1
16	Front Wheel Bushing	2	33	Handle	1
17	Front Wheel	2			

PARTS LIST FOR HYDRAULIC UNIT

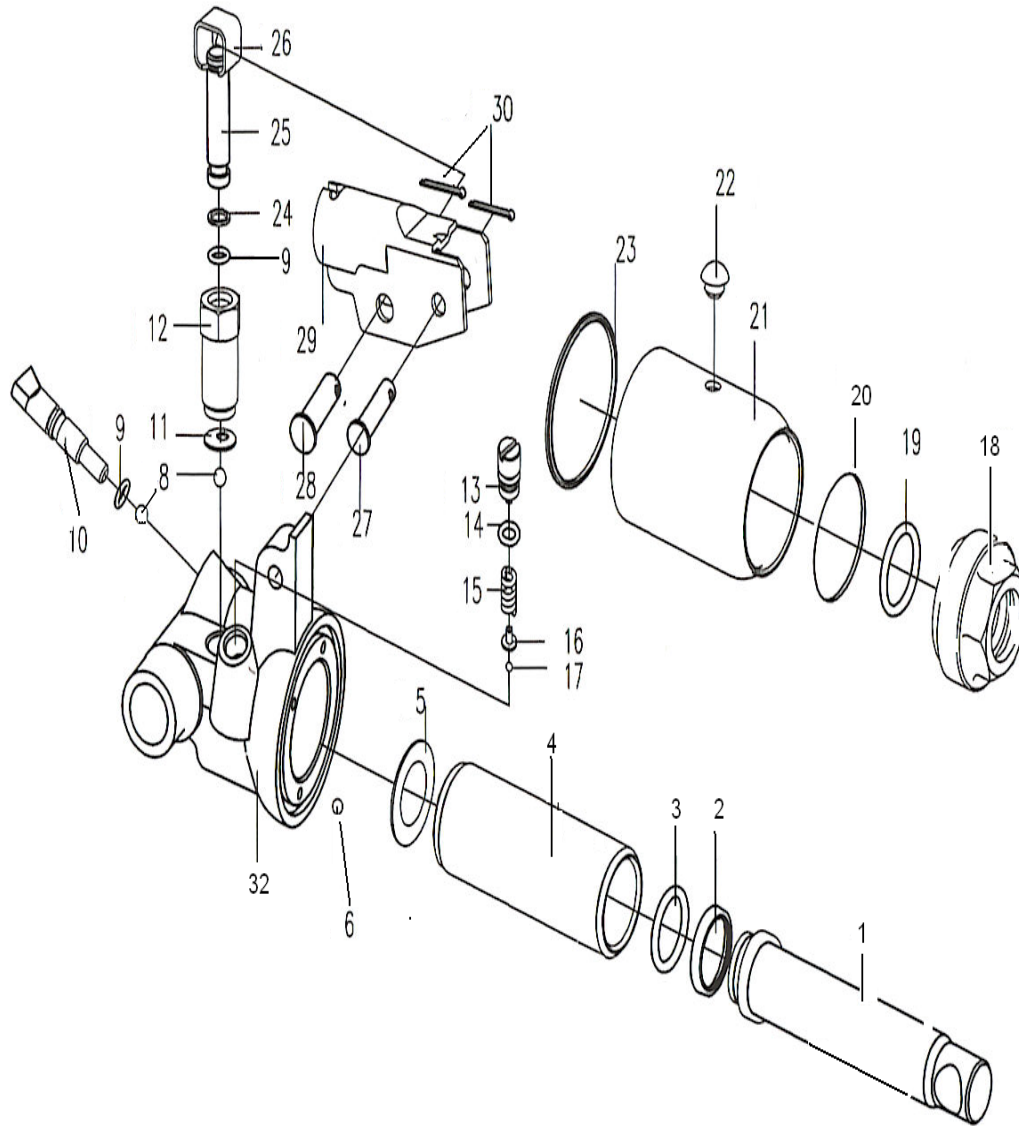
Part	Description	Q'ty	Part	Description	Q'ty
A1	Ram	1	A16	Safety Valve Plunger	1
A2	Cup Seal O-Ring	1	A17	Steel Ball Bearing	1
A3	O-Ring	1	A18	Cap Nut	1
A4	Cylinder Bearing	1	A19	O-Ring (Large)	1
A5	Washer	1	A20	Oil Chamber Seal Ring	1
A6	Steel Ball Bearing	1	A21	Oil Chamber	1
32	See Floor Jack Parts List		A22	Oil Plug	1
A8	Steel Ball Bearing	2	A23	Rectangle Seal Ring	1
A9	O-Ring	2	A24	Piston Retaining Ring	1
A10	Release Valve Screw	1	A25	Piston	1
A11	Pump Washer	1	A26	Piston Mount	1
A12	Pump Cylinder	1	A27	Pin (Large)	1
A13	Safety Valve Screw	1	A28	Pin (Small)	1
A14	O-Ring	1	A29	Piston Lever	1
A15	Safety Valve Spring	1	A30	Cotter Pin	2

NOTE: When ordering parts for the Hydraulic Unit Assembly, always use the Prefix "A" as seen in the "Hydraulic Unit" Parts List above.

FLOOR JACK ASSEMBLY DIAGRAM



HYDRAULIC UNIT ASSEMBLY DIAGRAM



NOTE: When ordering parts for this Hydraulic Unit, always use the prefix "A" as shown on the Hydraulic Unit Parts List. To order entire Hydraulic Unit assembly, Order part 32 on Parts List.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

LIMITED 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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