

Owner's Manual & Safety Instructions

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.

20a



PARTS WASHER WITH PUMP



Visit our website at: <http://www.harborfreight.com>
Email our technical support at: productsupport@harborfreight.com

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When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein.
Tools required for assembly and service may not be included.

⚠ WARNING

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

Table of Contents

Safety	3	Maintenance	10
Specifications	6	Parts List and Diagram	11
Setup	6	Warranty	12
Operation	8		



SAFETY

SETUP

OPERATION

MAINTENANCE

WARNING SYMBOLS AND DEFINITIONS	
	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.
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	Addresses practices not related to personal injury.

IMPORTANT SAFETY INFORMATION

General Safety Warnings

⚠️ WARNING

Read all safety warnings and instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

1. KEEP GUARDS IN PLACE and in working order.
2. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
3. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use Parts Washers in damp or wet locations, or expose them to rain. Keep work area well lighted.
4. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
5. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.
6. USE RIGHT TOOL. Don't force Parts Washer or attachment to do a job for which it was not designed.
8. WEAR PROPER APPAREL. Do not wear loose clothing, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
9. ALWAYS USE SPLASH-RESISTANT ANSI-APPROVED SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
10. DON'T OVERREACH. Keep proper footing and balance at all times.
11. MAINTAIN PARTS WASHERS WITH CARE. Keep Parts Washers clean for best and safest performance. Follow instructions for lubricating and changing accessories.

Table A: RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS (120 VOLT)

NAMEPLATE AMPERES (at full load)	EXTENSION CORD LENGTH			
	25'	50'	100'	150'
0 – 6	18	16	16	14
6.1 – 10	18	16	14	12
10.1 – 12	16	16	14	12
12.1 – 16	14	12	Do not use.	

7. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table A shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.
12. DISCONNECT PARTS WASHERS before servicing; when changing accessories.
13. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.
14. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
15. CHECK DAMAGED PARTS. Before further use of the Parts Washer, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
16. NEVER LEAVE PARTS WASHER RUNNING UNATTENDED. TURN POWER OFF.

Grounding Instructions



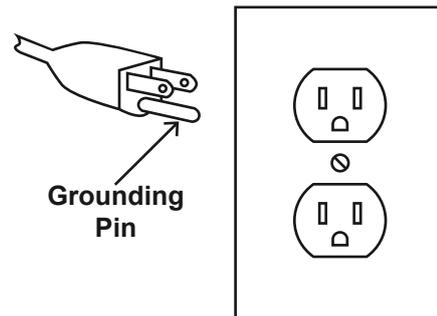
⚠️ WARNING

TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION
READ AND FOLLOW THESE INSTRUCTIONS:

110-120 VAC Grounded Parts Washers: Parts Washers with Three Prong Plugs

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This Parts Washer is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
2. Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
4. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the Parts Washer is properly grounded.
5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the Parts Washer's plug.

6. Repair or replace damaged or worn cord immediately.



**125 VAC 3-Prong Plug and Outlet
(for up to 125 VAC and up to 15 A)**

7. This Parts Washer is intended for use on a circuit that has an outlet that looks like the one illustrated above in **125 VAC 3-Prong Plug and Outlet**. The Parts Washer has a grounding plug that looks like the plug illustrated above in **125 VAC 3-Prong Plug and Outlet**.
8. The outlet must be properly installed and grounded in accordance with all codes and ordinances.
9. Do not use an adapter to connect this Parts Washer to a different outlet.

Parts Washer Safety Warnings

For Your Own Safety Read Instruction Manual Before Operating

- Use proper cleaning solutions.**
Clean parts with water or household detergents only. Never use highly volatile flammable solvents such as gasoline, toluene, diesel fuel, methyl ethyl ketone (MEK), or 1,1,1-trichloroethane. Read and understand all information concerning cleaning solvents before using.
- Do not use or store near open flames, pilot lights in stoves or heaters, or any other ignition source. Solvents are highly flammable. Use in well-ventilated area. Do not smoke during use.
- Avoid intake of solvents.**
Materials used when cleaning and debris removed by cleaning may be harmful or fatal if inhaled or swallowed.
- Plug into GFCI-protected outlet only.**
- The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.
- When servicing use only identical replacement parts.
- Stay alert, watch what you are doing and use common sense when operating a Parts Washer. Do not use a Parts Washer while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating Parts Washers may result in serious personal injury.
- Industrial applications must follow OSHA guidelines.
- Maintain labels and nameplates on the Parts Washer. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
- Avoid unintentional starting. Prepare to begin work before turning on the Parts Washer.
- People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
- 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

Electrical Rating	120VAC / 60Hz / 0.5A
Tank Size	20 Gallons
Solvent Capacity	12 Gallons
Pump Output	5.25 GPM (Gallons Per Minute)

Setup - Before Use:



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.

WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the Parts Washer off and unplug the Parts Washer from its electrical outlet before performing any procedure in this section.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Assembly

1. Lay the Tub (7) upside down.
2. Attach the Legs (13) to the Tub (7) using the Bolts (14), Washers (8) and Nuts (9).
3. Attach the Shelf (12) to the Legs using the Bolts, Washers, and Nuts.

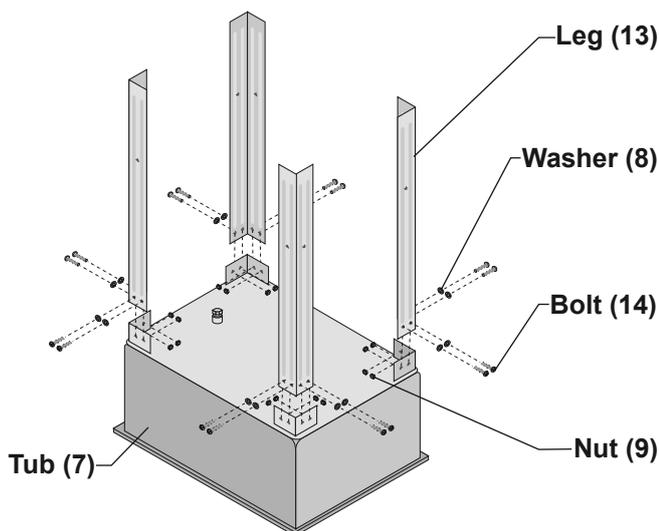


Figure A: Attaching Legs

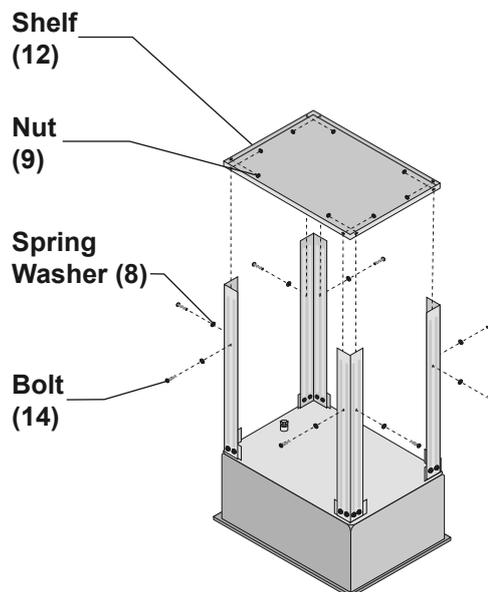


Figure B: Attaching Shelf

4. Turn the Tub over and place in a stable, well-ventilated area.
5. Place the Filter (17) inside of the Filter Cover (16). Slide Filter and Filter Cover into place on Pump Housing Cover (15).

6. Snap the Pump Housing Cover (15) into place on the Pump Housing (18).

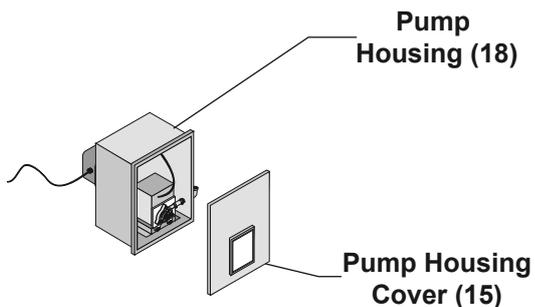


Figure C: Pump Housing Cover Assembly

7. Connect the Tube (24) to the Elbow (26).

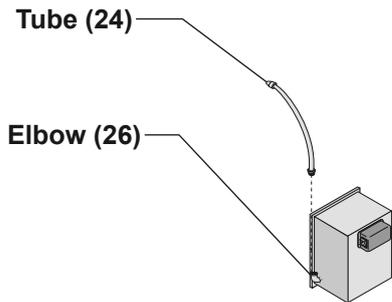


Figure D: Tube Installation

8. Loosen the two Screws (22) on the Switch Box (23) until there is about a 1/8" gap between the Switch Box (23) and the Pump Housing (18).
9. Place the Pump Housing (18) inside the Tub (7) so that the bottom lip of the Switch Box (23) hangs outside the Tub and slide it down.
10. Secure the Pump Housing to the Tub by tightening the Switch Box Screws (22).

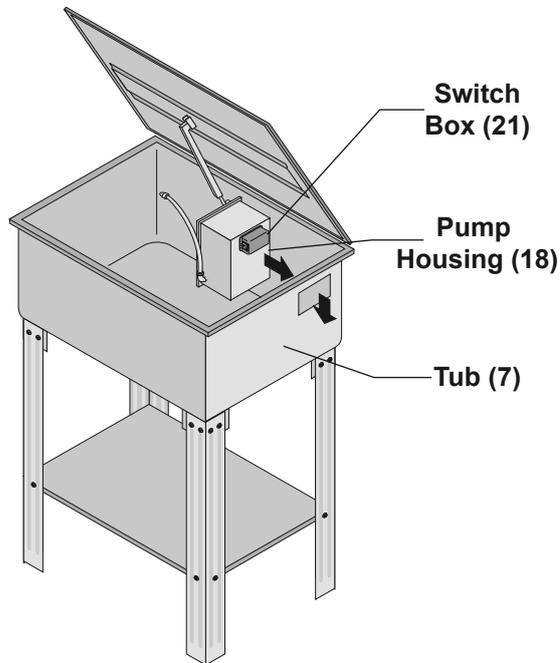


Figure E: Switch Box Installation



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.

Parts Washer Set Up

⚠️ WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Turn the Power Switch of the Parts Washer off and unplug the Parts Washer from its electrical outlet before performing any procedure in this section.

TO PREVENT SERIOUS INJURY:

Know your solvents. Do not use any highly volatile, flammable or combustible solvents, or fuels such as gasoline, diesel, or toluene. Only use noncorrosive water-based solvents.

Chlorinated solvents, such as 1-1-1 - trichloroethane and

Methylene Chloride (also known as Methyl Chloride) can chemically react with aluminum and may explode.

Do not use these solvents.

Many tools and pieces of equipment contain aluminum.

Fill the Tub with the proper cleaning solution just below crease in the Tub.

WARNING! Immerse the pump in liquid while operating. Fluid should be replaced, and Parts Washer cleaned, on a regular basis to avoid hazardous conditions. Avoid solvent contact with skin and eyes.

Workpiece and Work Area Set Up

⚠️ WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Turn the Power Switch of the Parts Washer off and unplug the Parts Washer from its electrical outlet before performing any procedure in this section. Parts being cleaned may contain and leave flammable or combustible residue or fluids in the parts washer. Check for solvent fumes to verify nonflammability and non-toxicity. Use in a well-ventilated area. Do not smoke. Non-water based solvents may also expel fumes that are hazardous to your health, and must not be used at any time. Keep away from ignition sources.

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
3. There must not be objects, such as utility lines, nearby that will present a hazard while working.

General Operating Instructions

1. Turn the Power Switch to the OFF position.
2. Plug the Power Cord into a grounded, GFCI-protected, 120 volt electrical outlet.
3. Place object(s) to be cleaned into the cleaning solution.
4. Turn the Power Switch to the ON position and begin cleaning object(s).
5. When the object(s) is clean, turn the Power Switch to the OFF position, and remove the object(s) from the cleaning fluid and air dry or wipe with clean shop towel.
6. Close the Cover.

SAFETY

SETUP

OPERATION

MAINTENANCE



Maintenance



Procedures not specifically explained in this manual must be performed only by a qualified technician.

WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Turn the Power Switch of the Parts Washer off and unplug the Parts Washer from its electrical outlet before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM PARTS WASHER FAILURE:

Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

1. **BEFORE EACH USE**, inspect the general condition of the Parts Washer. Check for:
 - loose hardware,
 - misalignment or binding of moving parts,
 - cracked or broken parts,
 - damaged electrical wiring, and
 - any other condition that may affect its safe operation.
2. **AFTER USE**, wipe external surfaces of the Parts Washer with clean cloth.
3. **WARNING!** If the supply cord of this Parts Washer is damaged, it must be replaced only by a qualified service technician.

Replacing Cleaning Solution

1. Replace the cleaning solution when it has become dirty.
2. Place an empty container on the lower Shelf (12) that is large enough to hold all of the liquid which is in the Tub.
3. Remove the Plug (11) from the bottom of the Tub. The fluid should drain into the empty container on the Shelf below.
4. Dispose of the used cleaning solution properly. Do not drain the cleaning solution into the street drains, house drains, or into the earth. Contact local waste management officials for proper disposal methods.
5. Replace the Plug, then refill the Tub with new cleaning solution.

Cleaning the Tube and Impeller

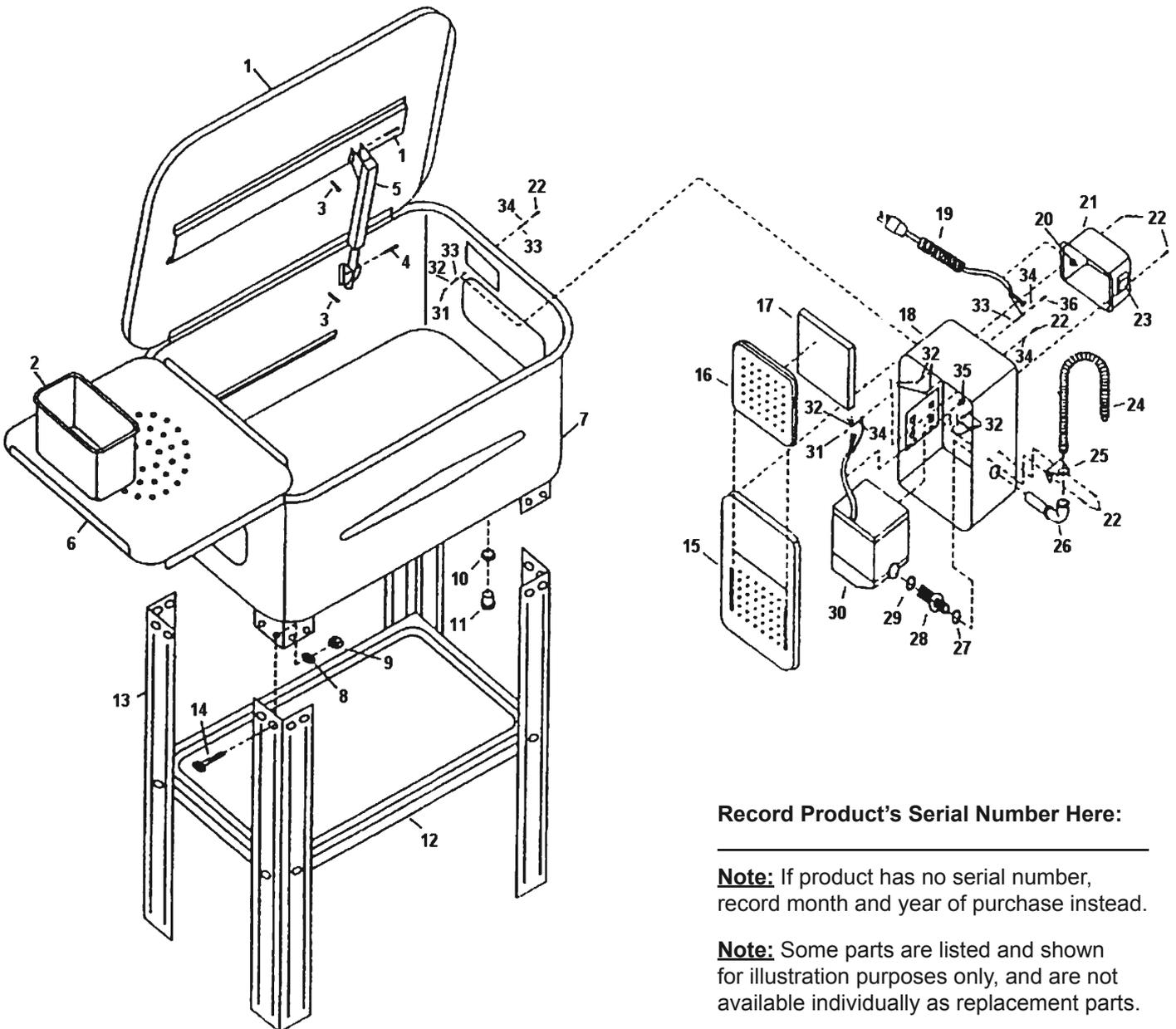
Note: When the cleaning solution flow is reduced or stopped, it may be necessary to clean the Tube (24).

1. Make certain that the indicator light on the Switch Box is on.
2. Turn the Switch to the OFF position.
3. Unplug the Power Cord from the electrical outlet.
4. Remove the Tube from the Elbow (26). Drain the pipe, inspect its interior for debris. Use compressed air to blow clean.
5. Remove the Pump Housing Cover (18), then clear and remove any foreign matter from the impeller.
6. Reattach the Tube to the Elbow, and replace the Pump Housing Cover.

Parts List and Diagram

Part	Description	Qty
1	Cover	1
2	Work Basket	1
3	Spring Pan	2
4	Pin	2
5	Safety Plate	1
6	Work Shelf	1
7	Tub	1
8	Spring Washer	24
9	Nut	24
10	O-Ring	1
11	Plug	1
12	Shelf	1
13	Leg	4
14	Bolt	24
15	Pump Housing Cover	1
16	Filter Cover	1
17	Filter	1
18	Pump Housing	1
19	Power Cord	1

Part	Description	Qty
20	Strain Relief	1
21	Switch Box	1
22	Screw	6
23	Switch	1
24	Tube	1
25	Elbow Seat	1
26	Elbow	1
27	Washer	1
28	Spigot	1
29	Seal Ring	1
30	Pump	1
31	Nut	7
32	Spring Washer	7
33	Toothed Washer	4
34	Flat Washer	2
35	Rubber Sheath	1
36	Screw	1



Record Product's Serial Number Here:

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

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.

