



For questions or help with this product contact Tech Support at (570) 546-9663 or techsupport@grizzly.com

# MODEL T34310 40-GALLON PARTS WASHER INSTRUCTIONS

## Introduction

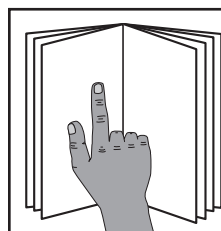
The Model T34310 40-Gallon Parts Washer features all steel construction and a 43½" long x 20½" wide x 11" deep cleaning tub. This machine also features a storage shelf for additional accessories.



**Figure 1.** Model T34310 40-Gallon Parts Washer.

## Specifications

Overall Size .....43½" L x 20½" W x 35" H  
Tub Depth .....11"  
Minimum Cleaning Fluid Level ..... 15 Gallons  
Maximum Cleaning Fluid Level ..... 24 Gallons  
Nozzle Diameter ..... 5.4mm  
Pump Motor .....43W, 120V, 1-Ph, 60Hz 0.36A  
Pump Output .....5 GPM  
Net Weight.....93 lbs.

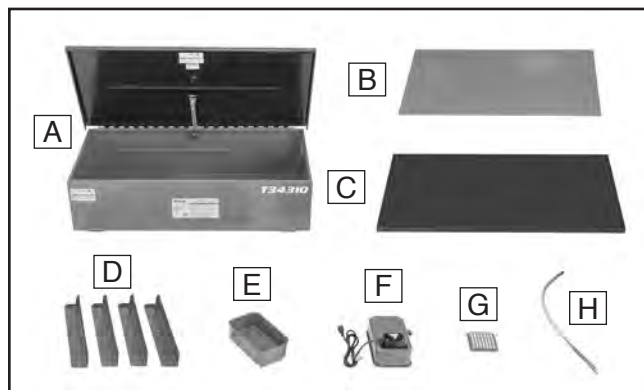


## ⚠ WARNING

To reduce your risk of serious injury, read this entire manual **BEFORE** using machine.

## Inventory

Description	Qty
A. Tub Assembly.....	1
B. Work Shelf.....	1
C. Storage Shelf.....	1
D. Legs.....	4
E. Work Basket .....	1
F. Pump .....	1
G. Intake Grate w/Filter .....	1
H. Flex Hose .....	1
I. Fasteners (Not Shown)	
—Truss Head Phillips Screws M6-1 x 12...	24
—Hex Nuts M6-1 .....	24
—Lock Washers 6mm .....	24



**Figure 2.** Inventory.

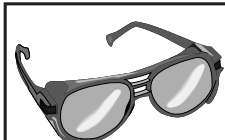
**Note:** Extra hardware may be included, but is not needed for assembly.

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OR FORM WITHOUT THE WRITTEN APPROVAL OF GRIZZLY INDUSTRIAL, INC.  
(FOR MODELS MFD. SINCE 09/24) #JA23339 PRINTED IN CHINA

V1.04.25

\*\*\*Keep for Future Reference\*\*\*

## Assembly



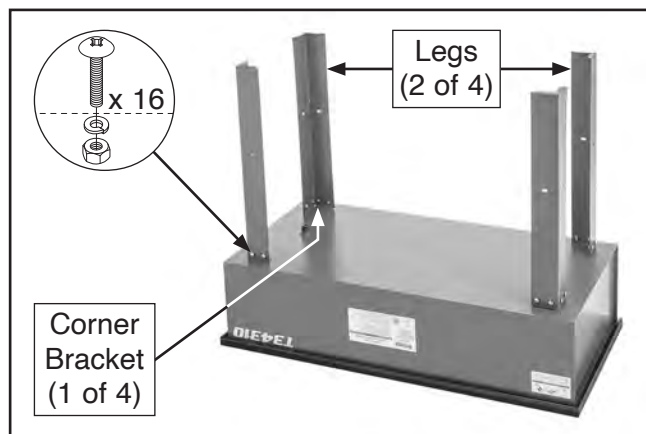
**! WARNING**  
Wear safety glasses during the entire setup process!

### Needed for Assembly

- Additional Person ..... 1
- Safety Glasses (for each person).....1 Pr.
- Phillips Head Screwdriver #2 ..... 1
- Open-End Wrenches 10, 19mm..... 1 Ea.

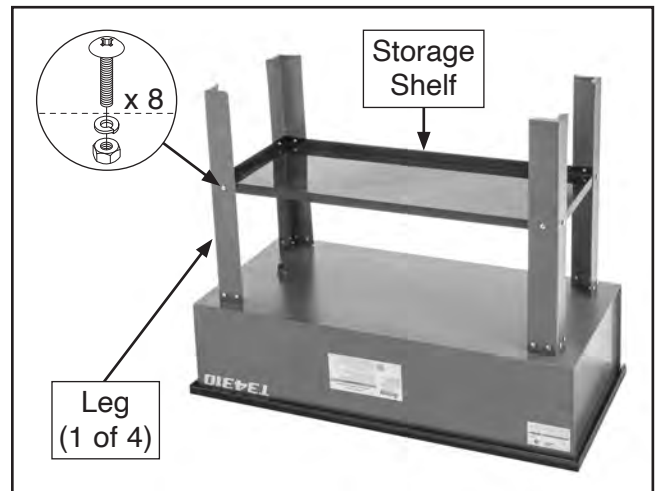
### To assemble washer:

1. Place tub assembly upside down on a flat, protected surface, then attach (4) legs to corner brackets with (16) M6-1 x 12 truss head Phillips screws, 6mm lock washers, and M6-1 hex nuts (see **Figure 3**).



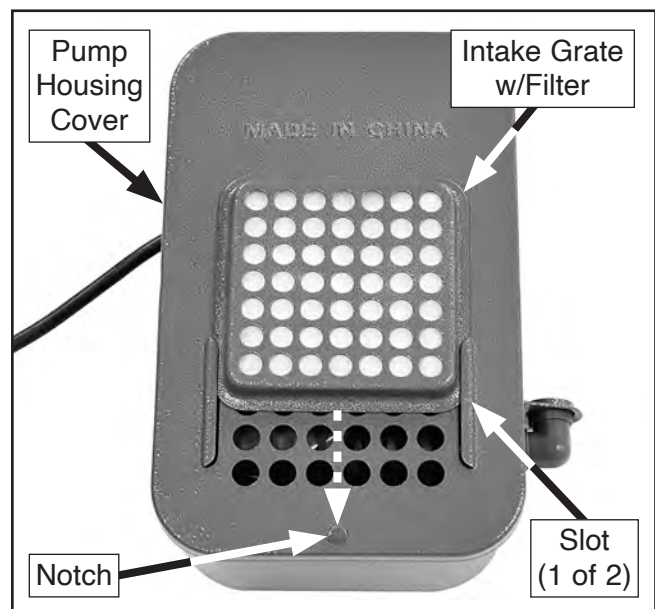
**Figure 3.** Legs attached to tub assembly.

2. Position bottom shelf between legs with flat surface facing bottom of tub (see **Figure 4**).
3. Align corner holes in storage shelf with holes in legs, then secure with (8) M6-1 x 12 truss head Phillips screws, 6mm flat washers, and M6-1 hex nuts (see **Figure 4**).



**Figure 4.** Bottom shelf attached to legs.

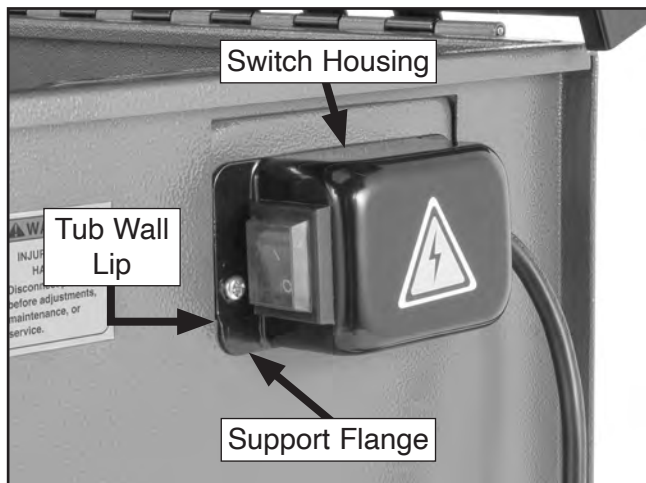
4. With help from an assistant carefully stand washer upright.
5. Slide intake grate w/filter into slots until it contacts notch on pump housing cover (see **Figure 5**).



**Figure 5.** Location of pump housing cover components.

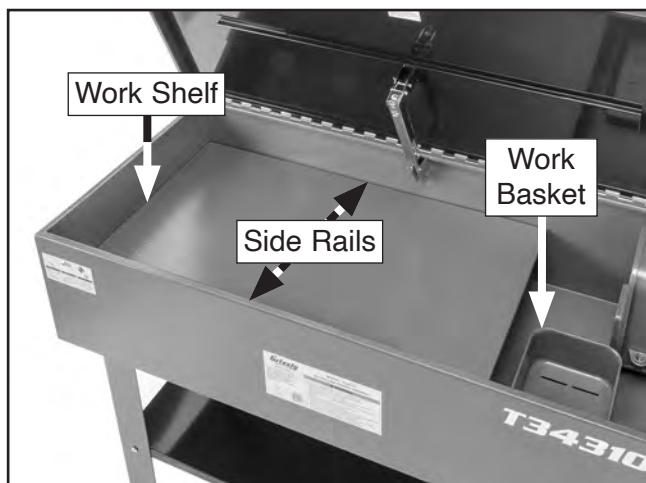


6. Insert switch housing and power cord through opening in tub, then place support flange on switch housing over tub wall lip (see **Figure 6**).



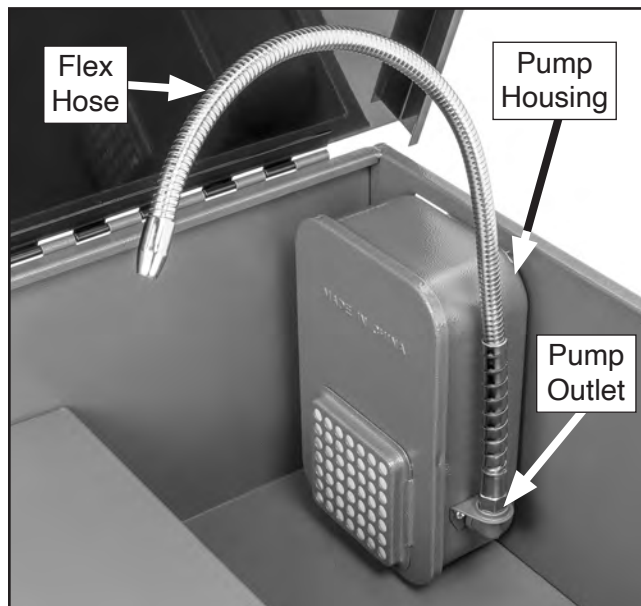
**Figure 6.** Support flange on switch housing placed over tub wall lip.

7. Install work shelf on side rails in parts washer, and place work basket as desired (see **Figure 7**).



**Figure 7.** Location of work shelf and work basket in parts washer.

8. Thread flex hose into pump outlet on pump housing, as shown in **Figure 8**. DO NOT overtighten flex hose.



**Figure 8.** Flex hose attached to pump housing.

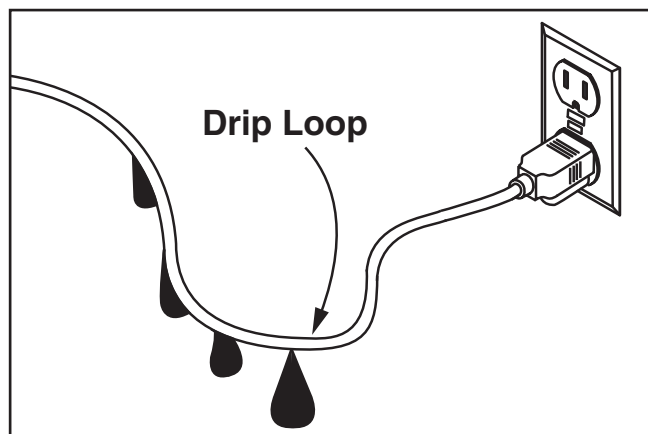


## Operation Safety

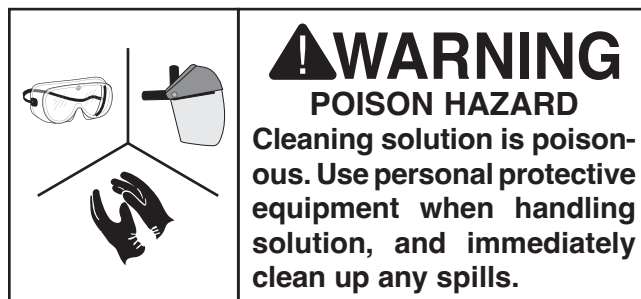
- **SAFE STORAGE.** Keep away from children and animals. Close the lid when machine is not in use.
- **PREVENTING FIRE.** Do not fill this parts washer with gasoline, kerosene, fuel, or flammable solvents. Do not modify the lid support in any way. The lid support is specially designed to automatically close in the event of a fire. Keep an appropriate class fire extinguisher close at hand.
- **SAFE USAGE.** Never smoke or use a drop light, or any other ignition source, near the parts washer. An ignition source or electrical device that falls into the cleaning solution can cause fire or electrocution.
- **PERSONAL PROTECTION.** To prevent personal toxic exposure, always wear gloves, goggles, an apron, and a respirator when using or changing the parts washer liquid. Wash your hands with soap and water after every use.
- **LOCATION.** Make sure that the parts washer is located in an area with adequate ventilation to prevent a buildup of vapors, and always keep the parts washer away from all ignition sources.

## Connecting Power

When connecting the plug to an outlet, ensure the lowest point of the cord loop is lower than the outlet the plug is connected to. This helps to ensure water will "drip" from the cord and not get into the power receptacle.



**Figure 9.** Connecting to power with a drip loop.



## Operation

This parts washer has a 40-gallon interior volume, and is designed to hold a maximum of 24 gallons of water-based cleaning solution. DO NOT overfill.

### To operate parts washer:

1. Open lid, verify minimum solution level, then turn pump **ON** (I).
- IMPORTANT:** Ensure nozzle is pointed toward tub. Never point nozzle toward face or body.
2. Hold part under nozzle and slowly rotate until part is clean, allow excess cleaning solution to drain from part, then rinse with warm water.
3. Switch pump **OFF** (O), close lid, and disconnect machine from power supply.

## Maintenance

Clean or replace the intake filter before it becomes clogged. Rinse with warm water and allow to dry completely before use.

Drain tub when there is an accumulation of debris at the bottom, or the filter becomes clogged quicker than normal. Remove drain plug and drain fluid into appropriate containers. Follow OSHA, EPA, and the manufacturer's solution replacement schedules and disposal regulations. Fill tub with at least 15 gallons of water-based cleaning solution until intake grate is fully submerged.

Only use non-flammable cleaning solutions with a PH between 6–8. Some solutions can be highly flammable and may damage pump and motor seals, and others can react with what you may be cleaning and produce harmful fumes. If you are in doubt about any aspect of your selected solution, contact the solution manufacturer or refer to its safety data sheet.



## 120V Circuit Requirements

This machine is prewired to operate on a power supply circuit that has a verified ground and meets the following requirements:

**Nominal Voltage** ..... 110V, 115V, 120V  
**Cycle** ..... 60 Hz  
**Phase** ..... Single-Phase  
**Power Supply Circuit** ..... 15 Amps  
**Plug/Receptacle** ..... NEMA 5-15

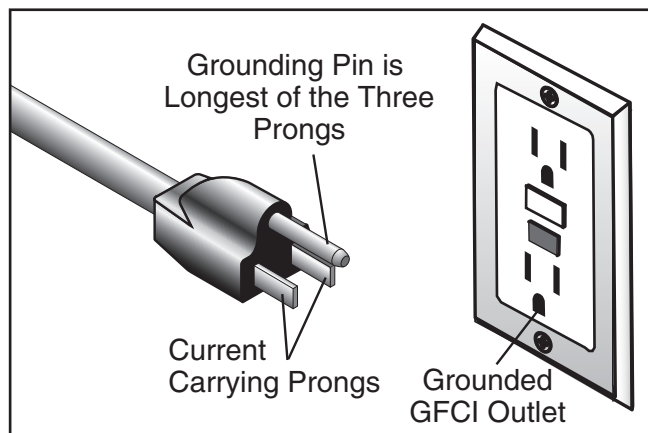
A power supply circuit includes all electrical equipment between the breaker box or fuse panel in the building and the machine. The power supply circuit used for this machine must be sized to safely handle the full-load current drawn from the machine for an extended period of time. (If this machine is connected to a circuit protected by fuses, use a time delay fuse marked D).

## Grounding & Plug Requirements

This machine **MUST** be grounded. In the event of certain malfunctions or breakdowns, grounding reduces the risk of electric shock by providing a path of least resistance for electric current.

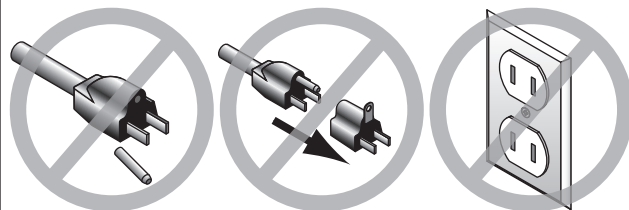
This machine is equipped with a power cord that has an equipment-grounding wire and a grounding plug. Only insert plug into a matching GFCI (Ground Fault Circuit Interrupt) receptacle (outlet) that is properly installed and grounded in accordance with all local codes and ordinances. **DO NOT** modify the provided plug!

Test the GFCI receptacle operation according to switch manufacturer recommended intervals.



**Figure 10.** Typical 5-15 plug and GFCI receptacle.

## ⚠ CAUTION



### SHOCK HAZARD!

**Two-prong outlets do not meet the grounding requirements for this machine. Do not modify or use an adapter on the plug provided—if it will not fit the outlet, have a qualified electrician install the proper outlet with a verified ground.**

Improper connection of the equipment-grounding wire can result in a risk of electric shock. The wire with green insulation (with or without yellow stripes) is the equipment-grounding wire. If repair or replacement of the power cord or plug is necessary, do not connect the equipment-grounding wire to a live (current carrying) terminal.

Check with a qualified electrician or service personnel if you do not understand these grounding requirements, or if you are in doubt about whether the machine is properly grounded. If you ever notice that a cord or plug is damaged or worn, disconnect it from power, and immediately replace it with a new one.

## Extension Cords

We do not recommend using an extension cord with this machine. If you must use an extension cord, only use it if absolutely necessary and only on a temporary basis.

Extension cords cause voltage drop, which can damage electrical components and shorten motor life. Voltage drop increases as the extension cord size gets longer and the gauge size gets smaller (higher gauge numbers indicate smaller sizes).

Any extension cord used with this machine must be in good condition and contain a ground wire and matching plug/receptacle. Additionally, it must meet the following size requirements:

**Minimum Gauge Size** ..... 18 AWG  
**Maximum Length (Shorter is Better)** ..... 50 ft.



# WIRING

These pages are current at the time of printing. However, in the spirit of improvement, we may make changes to the electrical systems of future machines. Compare the manufacture date of your machine to the one stated in this manual, and study this section carefully.

If there are differences between your machine and what is shown in this section, call Technical Support at (570) 546-9663 for assistance BEFORE making any changes to the wiring on your machine. An updated wiring diagram may be available. **Note:** Please gather the serial number and manufacture date of your machine before calling. This information can be found on the main machine label.

## WARNING

### Wiring Safety Instructions

**SHOCK HAZARD.** Working on wiring that is connected to a power source is extremely dangerous. Touching electrified parts will result in personal injury including but not limited to severe burns, electrocution, or death. Disconnect the power from the machine before servicing electrical components!

**MODIFICATIONS.** Modifying the wiring beyond what is shown in the diagram may lead to unpredictable results, including serious injury or fire. This includes the installation of unapproved after-market parts.

**WIRE CONNECTIONS.** All connections must be tight to prevent wires from loosening during machine operation. Double-check all wires disconnected or connected during any wiring task to ensure tight connections.

**CIRCUIT REQUIREMENTS.** You MUST follow the requirements at the beginning of this manual when connecting your machine to a power source.

**WIRE/COMPONENT DAMAGE.** Damaged wires or components increase the risk of serious personal injury, fire, or machine damage. If you notice that any wires or components are damaged while performing a wiring task, replace those wires or components.

**MOTOR WIRING.** The motor wiring shown in these diagrams is current at the time of printing but may not match your machine. If you find this to be the case, use the wiring diagram inside the motor junction box.
















**CAPACITORS/INVERTERS.** Some capacitors and power inverters store an electrical charge for up to 10 minutes after being disconnected from the power source. To reduce the risk of being shocked, wait at least this long before working on capacitors.

**EXPERIENCING DIFFICULTIES.** If you are experiencing difficulties understanding the information included in this section, contact our Technical Support at (570) 546-9663.

#### NOTICE

The photos and diagrams included in this section are best viewed in color. You can view these pages in color at [www.grizzly.com](http://www.grizzly.com).

#### COLOR KEY

BLACK 	BLUE 	YELLOW 	LIGHT BLUE 
WHITE 	BROWN 	YELLOW GREEN 	BLUE WHITE 
GREEN 	GRAY 	PURPLE 	TURQUOISE 
RED 	ORANGE 	PINK 	



# T34310 Wiring Diagram

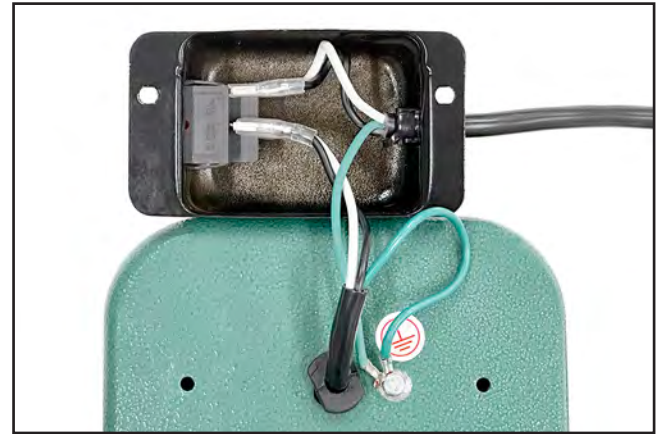
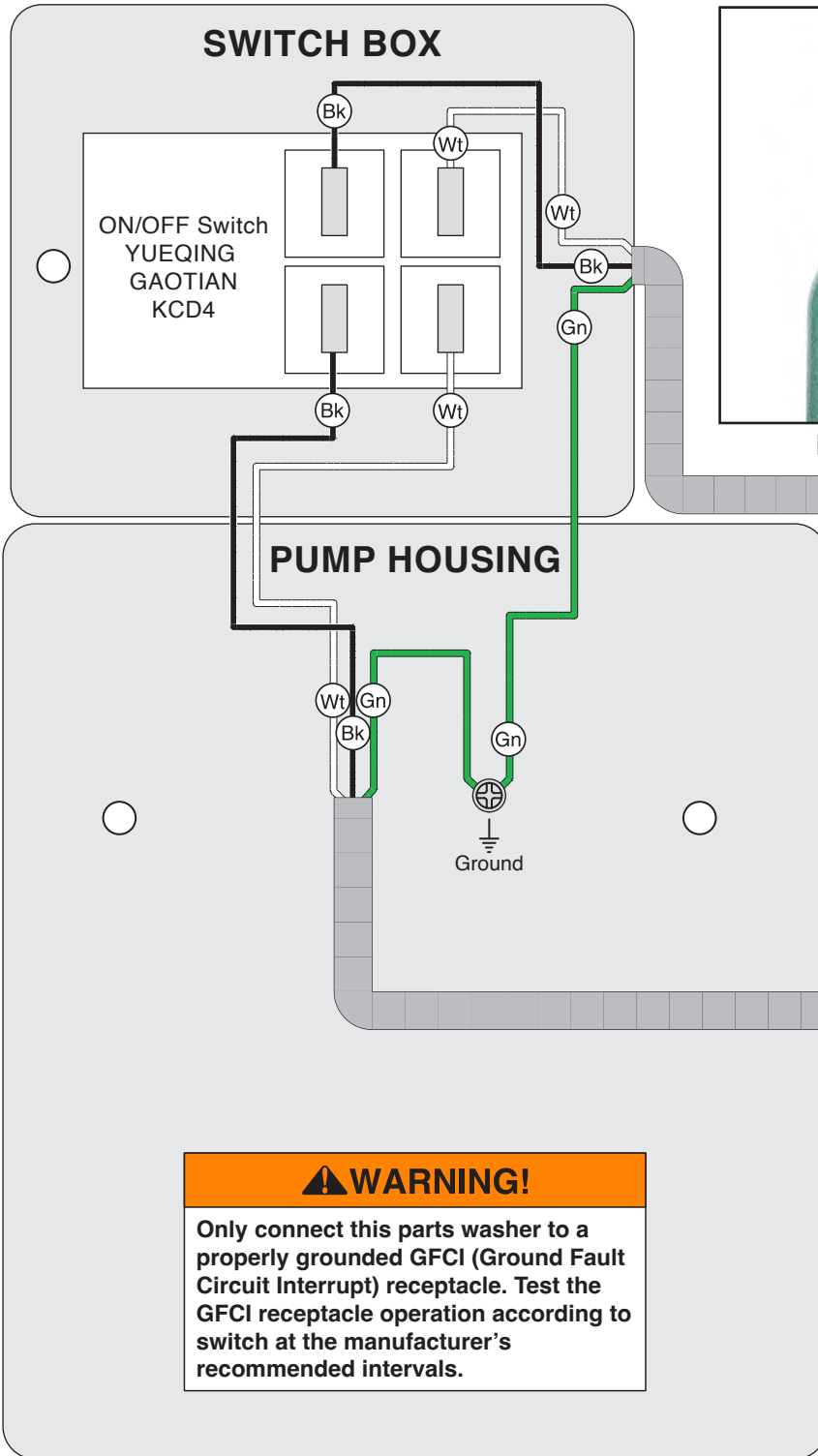
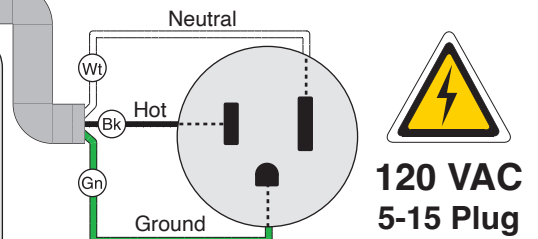


Figure 11. ON/OFF switch wiring.

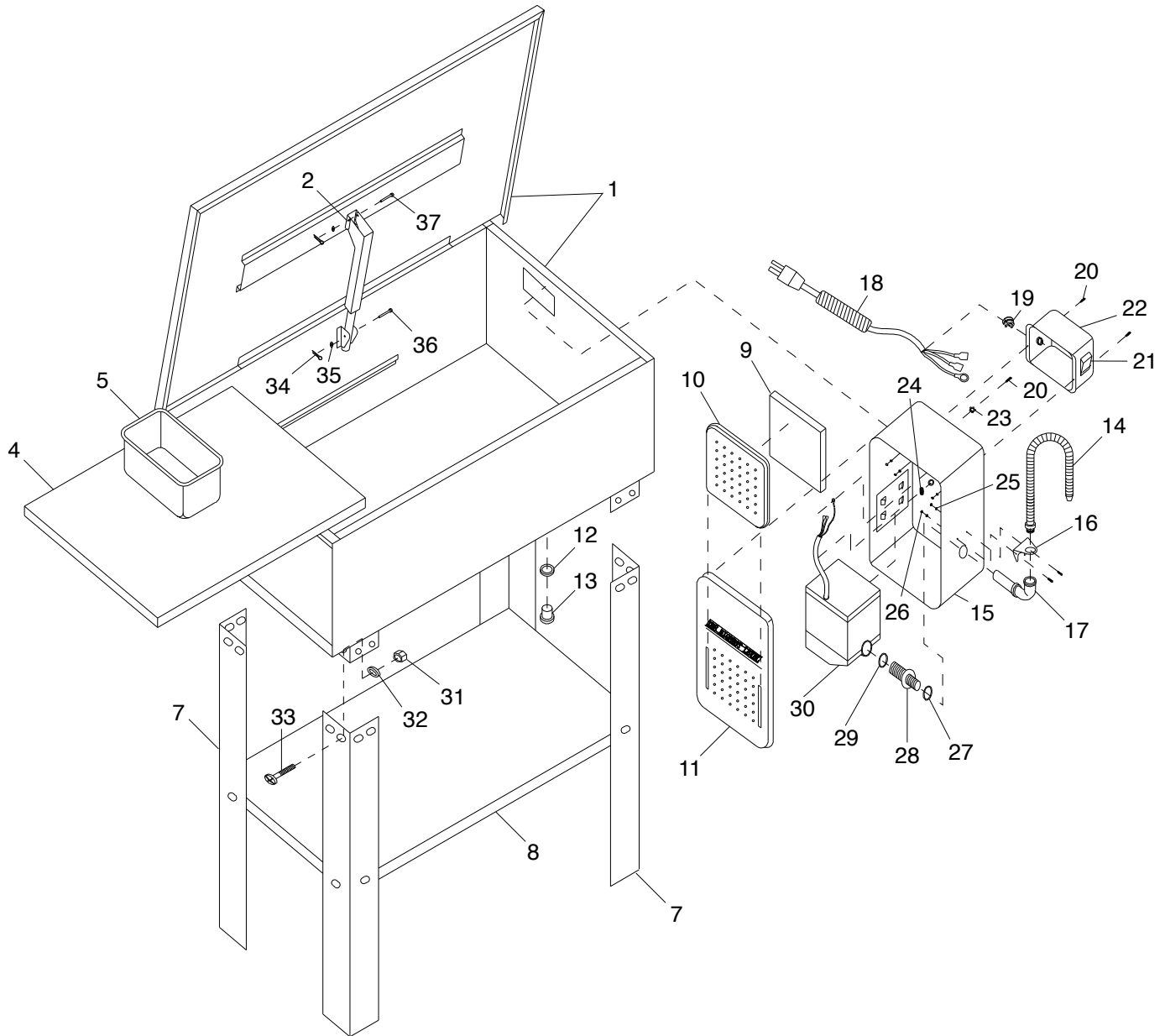


**PUMP MOTOR 120V**

# PARTS

We do our best to stock replacement parts when possible, but we cannot guarantee that all parts shown are available for purchase. Call **(800) 523-4777** or visit **[www.grizzly.com/parts](http://www.grizzly.com/parts)** to check for availability.

## Main



# Main Parts List

REF	PART #	DESCRIPTION
1	PT34310001	TUB & LID
2	PT34310002	LID SUPPORT W/FUSIBLE LINK
4	PT34310004	WORK SHELF
5	PT34310005	WORK BASKET
7	PT34310007	LEG
8	PT34310008	SHELF
9	PT34310009	FILTER 100 X 100 X 10MM
10	PT34310010	INTAKE GRATE
11	PT34310011	PUMP HOUSING COVER
12	PT34310012	O-RING 11.8 X 3.1
13	PT34310013	DRAIN PLUG
14	PT34310014	FLEX HOSE W/NOZZLE
15	PT34310015	PUMP HOUSING
16	PT34310016	MOUNTING PLATE
17	PT34310017	PIPE FITTING 90-DEG 1/4 G
18	PT34310018	POWER CORD 18G 3W 72" 5-15P
19	PT34310019	STRAIN RELIEF 15MM
20	PT34310020	PHLP HD SCR M4-.7 X 10

REF	PART #	DESCRIPTION
21	PT34310021	ON/OFF SWITCH KCD4 15A 120V
22	PT34310022	SWITCH BOX
23	PT34310023	EXT TOOTH WASHER 4MM
24	PT34310024	GROMMET 8MM, RUBBER
25	PT34310025	LOCK WASHER 4MM
26	PT34310026	HEX NUT M4-.7
27	PT34310027	O-RING 10 X 2.65
28	PT34310028	PIPE ADAPTER 1/4 G X 1/2 G
29	PT34310029	O-RING 14 X 2.65
30	PT34310030	PUMP AP2000 120V 0.36A
31	PT34310031	HEX NUT M6-1
32	PT34310032	LOCK WASHER 6MM
33	PT34310033	TRUSS HD PHLP SCR M6-1 X 12
34	PT34310034	COTTER PIN 1.6 X 10
35	PT34310035	FLAT WASHER 5MM
36	PT34310036	CLEVIS PIN 5 X 20MM
37	PT34310037	CLEVIS PIN 5 X 30MM



# Labels & Cosmetics

101

**MODEL T34310**  
**40-GALLON PARTS WASHER**

Specifications	⚠ WARNING!
<b>Motor:</b> 43 Watt, 120V, 1-Ph, 60 Hz <b>Full-Load Current Rating:</b> 0.36A <b>Tank Dimensions:</b> 43-1/2" x 20-1/2" x 11" <b>Tank Capacity:</b> 40 Gallons <b>Solvent Capacity:</b> 24 Gallons <b>Solvent Type:</b> Water-Based <b>Nozzle Diameter:</b> 5.4mm <b>Flow Rate:</b> 5 Gallons Per Minute <b>Weight:</b> 93 lbs.	To reduce risk of serious personal injury when using this machine: 1. Read and understand owner's manual before operating. 2. Always wear approved eye protection and rubber gloves. 3. Only plug power cord into a GFCI outlet. 4. Only use non-flammable cleaning solutions. Never use kerosene, gasoline, diesel fuel, or acids as cleaning solvents. 5. Keep away from flame, welding or grinding sparks, and other ignition sources. 6. Do not use for mixing solvents or other chemicals. 7. Fuseable link must be intact at all times. 8. Do not modify for any purpose other than what machine was designed for. 9. Never leave oily or solvent-soaked rags in parts washer. 10. Always keep a fire extinguisher nearby in case of fire. 11. Do not use while smoking or under the influence of drugs or alcohol. 12. Close lid and disconnect from power when not in use. 13. Prevent unauthorized use by children or untrained users.

Date \_\_\_\_\_  
SN \_\_\_\_\_

Mfg. for Grizzly in China

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**⚠ WARNING!**  
To reduce risk of death or serious injury, read manual BEFORE using machine.  
To get a new manual, call (800) 523-4777 or go to [www.grizzly.com](http://www.grizzly.com)

**⚠ WARNING!**  
**EYE / FACE INJURY HAZARD!**  
Always wear an ANSI approved face shield when using this equipment.

**⚠ WARNING!**  
**BIOLOGICAL AND POISON HAZARD!**  
Use personal protection when handling cleaning solvent. Immediately clean up spills.

102

104

**⚠ WARNING!**  
**FIRE HAZARD!**  
Only use non-flammable cleaning solutions in this parts washer.

105



106

**⚠ WARNING!**  
**INJURY/SHOCK HAZARD!**  
Disconnect power before adjustments, maintenance, or service.

107

**ELECTROCUTION HAZARD!**  
Ensure power cord always has a "drip loop" to prevent water from running into power supply!

**⚠ WARNING!**

**Ground Fault**

**ELECTROCUTION HAZARD!**  
Only connect this power cord to GFCI-protected receptacle!

103

**⚠ WARNING!**  
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Use personal protection when handling cleaning solvent. Immediately clean up spills.

109

108

**T34310**

REF	PART #	DESCRIPTION
101	PT34310101	MACHINE ID LABEL
102	PT34310102	TOUCH-UP PAINT, GLOSSY BLACK
103	PT34310103	COMBO WARNING LABEL
104	PT34310104	SOLUTION WARNING LABEL
105	PT34310105	ELECTRICITY WARNING LABEL

REF	PART #	DESCRIPTION
106	PT34310106	DISCONNECT POWER WARNING LABEL
107	PT34310107	GFCI WARNING LABEL
108	PT34310108	MODEL NUMBER LABEL
109	PT34310109	TOUCH-UP PAINT, GRIZZLY GREEN

## ⚠ WARNING

Safety labels help reduce the risk of serious injury caused by machine hazards. If any label comes off or becomes unreadable, the owner of this machine **MUST** replace it in the original location before resuming operations. For replacements, contact (800) 523-4777 or [www.grizzly.com](http://www.grizzly.com).



# WARRANTY & RETURNS

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Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

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 products.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

In the event you need to use this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Number," which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.

For further information about the warranty, visit <https://www.grizzly.com/forms/warranty> or scan the QR code below to be automatically directed to our warranty page.





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