

INSTRUCTION AND OPERATION MANUAL

CM230
DRUM MOUNTED SINK



SOLVENT PARTS CLEANER

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I. Introduction

A. Manufacturer's Statement

This manual will provide you with important information about the Solvent Parts Cleaners and will instruct you on how to use this equipment in a safe manner.

The information contained in this manual is necessary for the safe, proper setup and operation of your Solvent Parts Cleaner.

Keep this manual, along with the Safety Data Sheets (SDS) for the solution in use, within easy reach of the operator of this parts cleaner.

The equipment described in this manual is subject to change. The manufacturer reserves the right to change equipment at any time as part of normal product improvement. Some improvements may have been made after this manual was printed. For the latest information on your equipment, contact the manufacturer.

B. General Information

CAUTION

**READ AND UNDERSTAND ALL LABELS, SDS, AND
THIS INSTRUCTION MANUAL BEFORE USE.**

CAUTION

DO NOT MIX AQUEOUS AND SOLVENT SOLUTIONS

The CM230 drum mounted sink is an economical, safe, and innovative system designed to clean parts, using a mineral spirits-based solvent. Solvents must be disposed of properly. Consult your local environmental management agency for additional guidance and other potentially hazardous materials compliance requirements.

Install your parts cleaner on a flat, level surface in an area provided with adequate ventilation. Avoid repeated or prolonged breathing of vapors. Do **NOT** use compressed air to dry parts as this may cause a high concentration of vapors in the immediate area. Local exhaust ventilation should be used in areas of high vapor concentration. Provisions for determining and maintaining adequate ventilation are the responsibility of the operator.

Make sure the parts cleaner is connected to a properly grounded power source. Check serial plate for power requirements.

Do **NOT** allow the parts cleaner to operate unattended.

II. Safety Instructions and Information

Complete safety in use is dependent upon proper use and handling of the parts cleaner in your workplace.

It is important that you follow the instructions provided in this manual. If you fail to read, understand, and follow all the procedures in this manual, you may cause or suffer personal injury.

DO NOT OPERATE ELECTRICAL EQUIPMENT INSIDE OF PARTS CLEANER.

This equipment is designed for use with mineral spirits-based solvents (stoddard solvent) with a flash point greater than 40°C (103°F). Do **NOT** add any other chemicals to the cleaning agent being used including, but not limited to, kerosene, fuel oil, gasoline, chlorinated solvents, brake cleaner, or detergents. The use of any other solvents/cleaning solutions could potentially cause a hazardous condition.

Avoid contact with eyes or skin. Wear protective eyewear, gloves, and clothing.

Operation should be conducted in a manner, which prevents splashing, or spillage. Any solvent spills should be promptly and properly cleaned up. Soak up all spills with absorbent material. Remove and dispose of all soaked material in accordance with regulatory requirements.

This unit is **NOT** intended for outdoor operation.

Do **NOT** leave solvent-soaked rags in parts cleaner or in uncovered containers.

Do **NOT** obstruct the cover. It is designed to close automatically in the event of a fire. The safety link and cover closing mechanism must be intact. Do **NOT** substitute with any other type of cover positioning device. Do **NOT** leave large objects in the parts cleaner or hang anything on the cover that could prevent the cover from closing in the event of a fire.

Do **NOT** place heavy objects on edges or front of sink. Although this parts cleaner is designed to be stable, uneven weight distribution could cause a hazardous condition, over which the manufacturer has no control.

Do **NOT** contaminate cleaning solvents with gasoline, alcohol or flammable liquids.

When cleaning carburetors or other fuel supplying components: remove all gasoline into a proper disposal container before placing the component into the parts cleaner. Gasoline has a lower flash point than mineral spirits solvent. If gasoline is added, the flash point of the solvent may be lowered.

Do **NOT** spray aerosols into or around this machine. Install the equipment in an area away from heat, sparks, and open flame. Never put hot parts into the solvent.

Do **NOT** use compressed air to dry parts. Be sure parts, especially brake parts, are completely dry prior to reassembly.

Turn unit "OFF" and close lid when equipment is not in use. This will reduce solvent loss due to evaporation.

A. Important Safety Instructions

1. Read all instructions.
2. Care must be taken as burns can occur from touching hot parts.
3. Do not operate equipment with a damaged cord or if the equipment has been dropped or damaged – until it has been examined by a qualified service person.
4. If an extension cord is necessary, a cord with a current rating equal to or more than that of the equipment should be used. Cords rated for less current than the equipment may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
5. Always unplug equipment from electrical outlet when not in use. Never use the cord to pull the plug from the outlet. Grasp plug and pull to disconnect.
6. To reduce the risk of fire, do **NOT** operate equipment in the vicinity of open containers of flammable liquids (gasoline).
7. To reduce the risk of electric shock, do **NOT** use on wet surfaces or expose to rain.
8. Use only as described in this manual. Use only manufacturer's recommended attachments.
9. **ALWAYS WEAR SAFETY GLASSES.** Everyday eyeglasses only have impact resistant lenses, they are not safety glasses.
10. Do **NOT** operate any electrical equipment inside sink or vat.
11. Do **NOT** smoke, eat, or drink in the work area.
12. Do **NOT** modify this part washer.
13. Do **NOT** operate this part washer in any manner that will cause splashing or cause mist to form.
14. Do **NOT** combine solvents and aqueous solutions.
15. **NEVER** heat solvents.
16. Adjust flexible nozzle or flow-thru brush so solvent is directed to inside the sink only
17. In any emergency, turn off the unit and disconnect from power supply.
18. This parts washer employs a safety feature called a fusible link that holds the cover open during use. Do NOT modify, alter, or obstruct the operation of the fusible link.
19. Keep cover closed whenever unit is not in use.
20. Do **NOT** use this unit when the fluid is below the minimum fill level, it may cause malfunction or unsafe conditions.

SAVE THESE INSTRUCTIONS

B. Service

Call your representative should your parts cleaner need service and always unplug unit when servicing.

Inspect and keep in good working order the power cord and all electrical components. If components show signs of damage or wear replace immediately. All work should be done by a trained technician.

Do **NOT** replace the pump before unplugging unit and letting it completely cool down.

Do **NOT** replace the fusible link with any other device to hold lid up. If fusible link should fail, for any reason, call your representative immediately.

C. Fire

This equipment is designed for use with mineral spirits-based solvents (stoddard solvent) with a flash point greater than 40°C (103°F). Do **NOT** add any other chemicals to the cleaning agent including, but not limited to, kerosene, fuel oil, gasoline, chlorinated solvents, brake cleaner, or detergents. The use of any other chemicals could potentially cause a hazardous condition.

Under certain conditions the solvent could burn. For your protection, a fusible link automatically closes the cover of the parts cleaner if a fire occurs in the sink work area. The closed cover contains and smothers the fire inside the metal sink. Do **NOT** leave large objects in the parts cleaner or hang anything on the cover that could prevent it from closing in the event of a fire. Do **NOT** replace fusible link with any other device to hold cover up.

IN CASE OF FIRE: Use a Type ABC or Type BC fire extinguisher. Do **NOT** use water. Contact your local fire department.

IN AN EMERGENCY, UNPLUG THE ELECTRICAL SUPPLY TO THE UNIT.

D. First Aid (Medical Instructions)

Please note that these First Aid Precautions are for uncontaminated cleaning solvents or Aqueous solutions only. Once the solvent or aqueous solution has been contaminated (i.e. with oil, grease, antifreeze, etc.), safety precautions should be adjusted according to the type of contaminant.

1. **EYES:** Contact may cause slight to moderate irritation. **For direct contact, flush eyes with water for 10-15 minutes or until the material has been removed; be sure to remove contact lenses, if present, and to lift the upper and lower lids during rinsing. If irritation from vapors or mists develops, move victim into fresh air. Get medical attention if irritation persists.**
2. **SKIN:** Prolonged or repeated contact tends to remove skin oils, possibly leading to dermatitis. **Wash skin with soap and water. Remove contaminated clothing, rinse shoes and launder clothing before reuse. If irritation or pain develops or persists, seek medical attention.**
3. **INHALATION (Breathing):** Prolonged exposure to concentrate-mist or vapor may cause mild irritation of nasal passages or throat and may have other central nervous system effects. **Remove to fresh air immediately. Do not leave victim unattended. Get medical attention if irritation persists.**
4. **INGESTION (Swallowing):** (Uncontaminated cleaning solvent) **Drink 4 to 8 ounces of water and seek medical attention. DO NOT induce vomiting.**

E. Environmental

1. **Avoid spilling solvent.** Spilled solvent can create slippery conditions, clean it up immediately. Close off area to traffic. Wear appropriate personal protective equipment to prevent eye and skin contact. Consult the Safety Data Sheet for instructions on clean up and disposal.
2. **Contain leaks promptly.** Notify local environmental authorities if necessary.
3. **Solvents must be disposed of properly. Consult your local environmental management agency for additional guidance and other potentially hazardous materials compliance requirements.**
4. **Do NOT remove devices designed to reduce solvent evaporation except to process work or to perform maintenance.**
5. **For further information consult the Safety Data Sheet provided by the solvent supplier.**

III. Washer Specifications

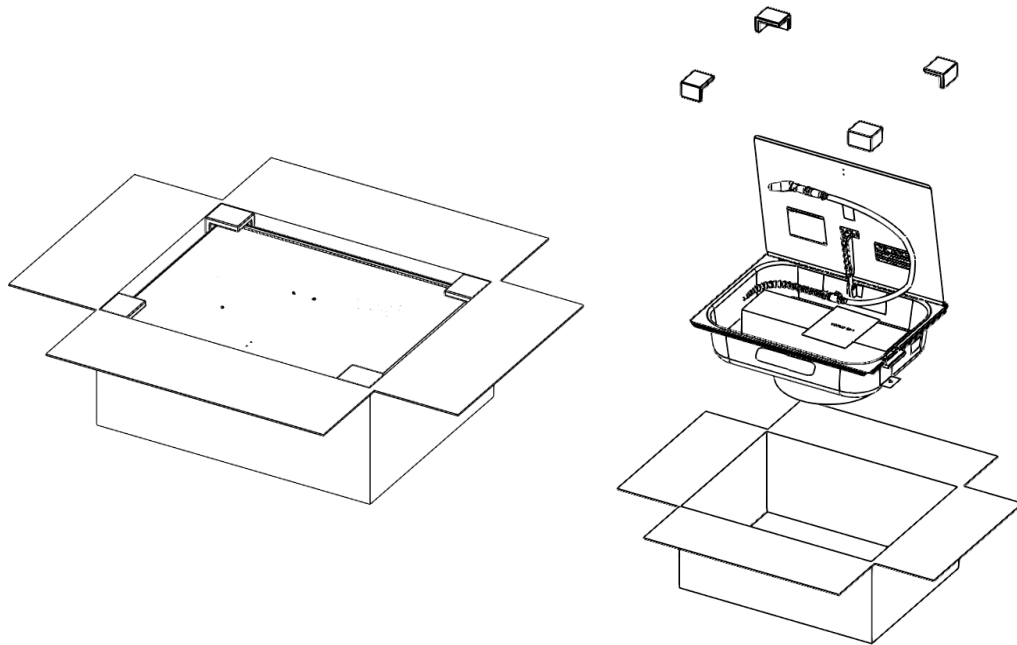
Shipping Dimensions	36.69" X 28.75" X 15.38"
Sink Internal Dimensions	31" X 23" X 7.25"
Work Area	3.76 ft ²
Weight	60lbs
Voltage	110-120V
Amperage	15A Circuit (1A largest motor/pump)
Max Load Capacity	75lbs
Minimum Required Fluid	15 gal
Maximum Allowable Fluid	30 gal

IV. Installation

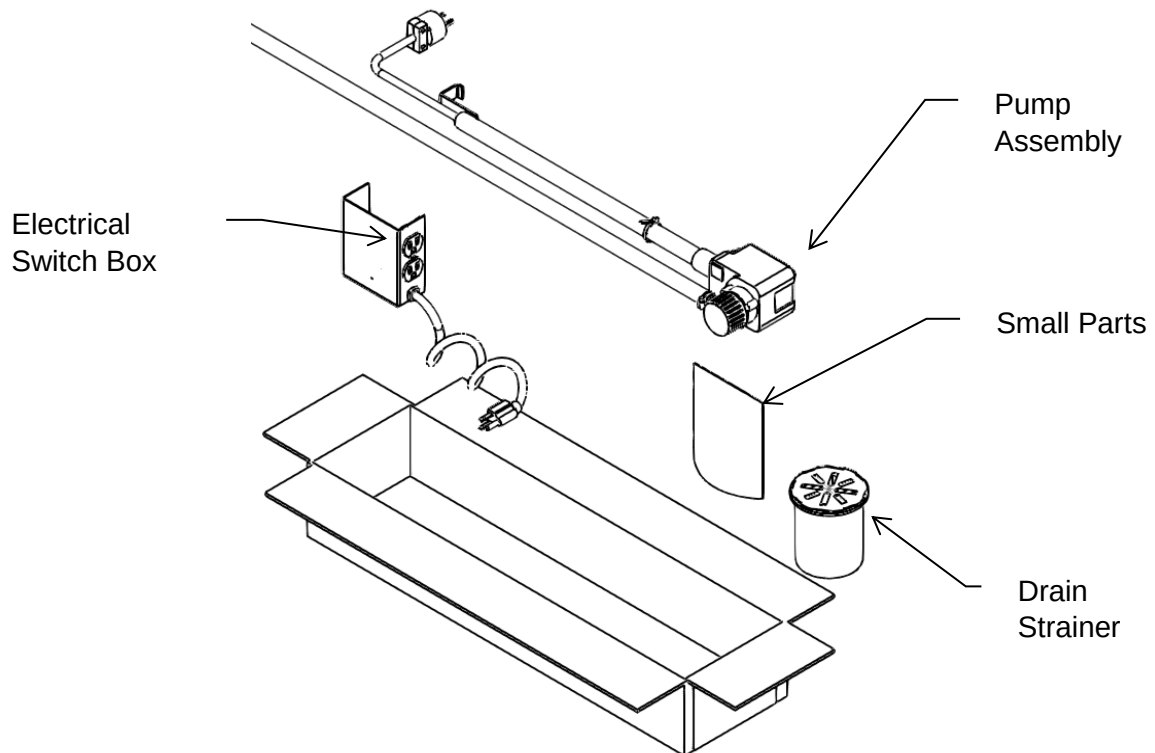
IMPORTANT! Inspect the packaging for shipping damage. Inspect the sink, lid, and items in the Parts Package for damage. As you assemble the parts washer, inspect fasteners, hose clamps, and wiring to ensure all items are firmly secure. These products are fully tested at the factory, but due diligence of the owner/operator to ensure the product is in good working condition prior to use.

1. Selection installation location of parts washer. The floor should be level and smooth. There should be access to a 115V 5-15R receptacle (standard wall outlet) within 7 feet of the machine. The space should be clear of debris, clutter, and flammable items. The space should have adequate ventilation.
2. The unit will install onto a standard 30-gallon drum. The drum should have an inside diameter of 18.25" (typical) and a depth of 27.5" (typical). The drum can be metal or plastic but must be appropriate for the chemicals, weight loading, and environmental temperatures.

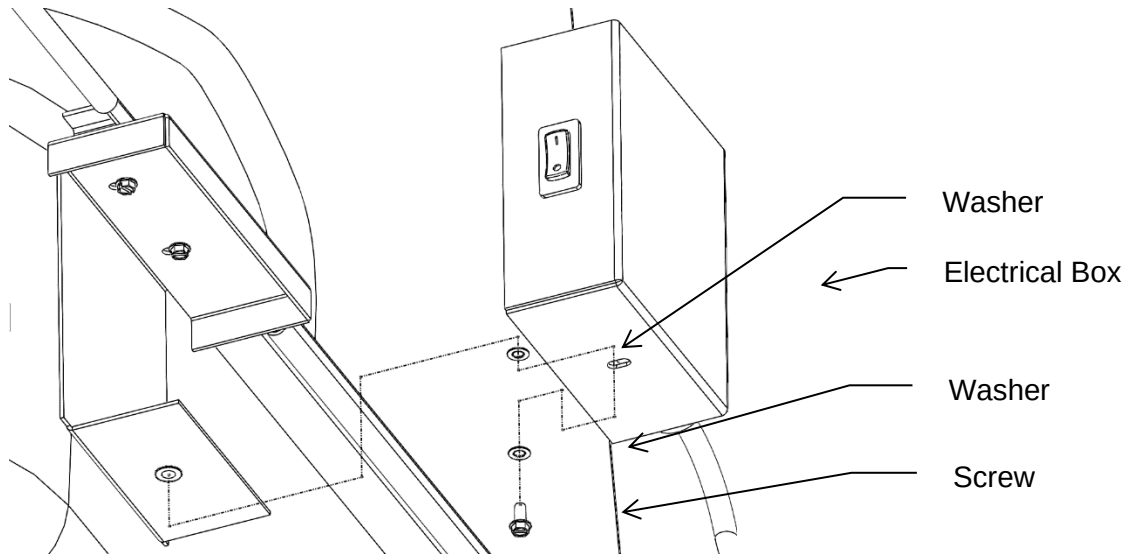
3. Unpack the parts washer from the carton by opening the top flaps and removing the 4 foam corner posts.



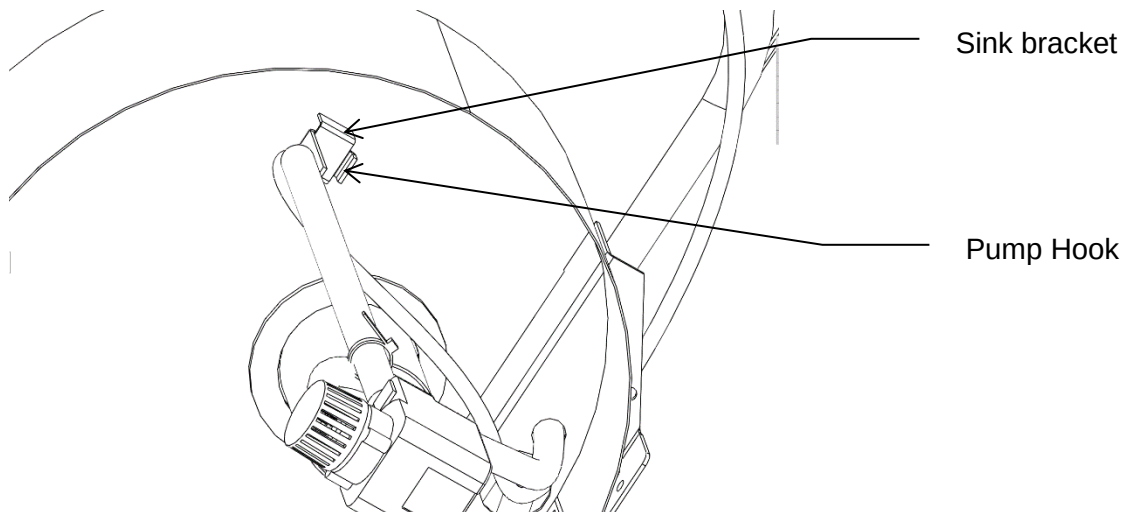
4. Locate the Parts Package and remove it from the sink.

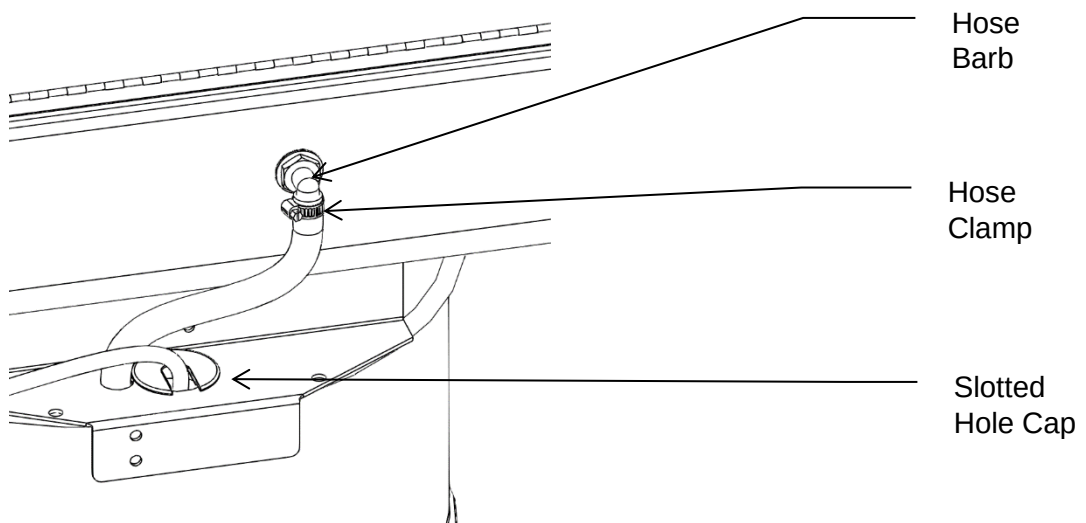
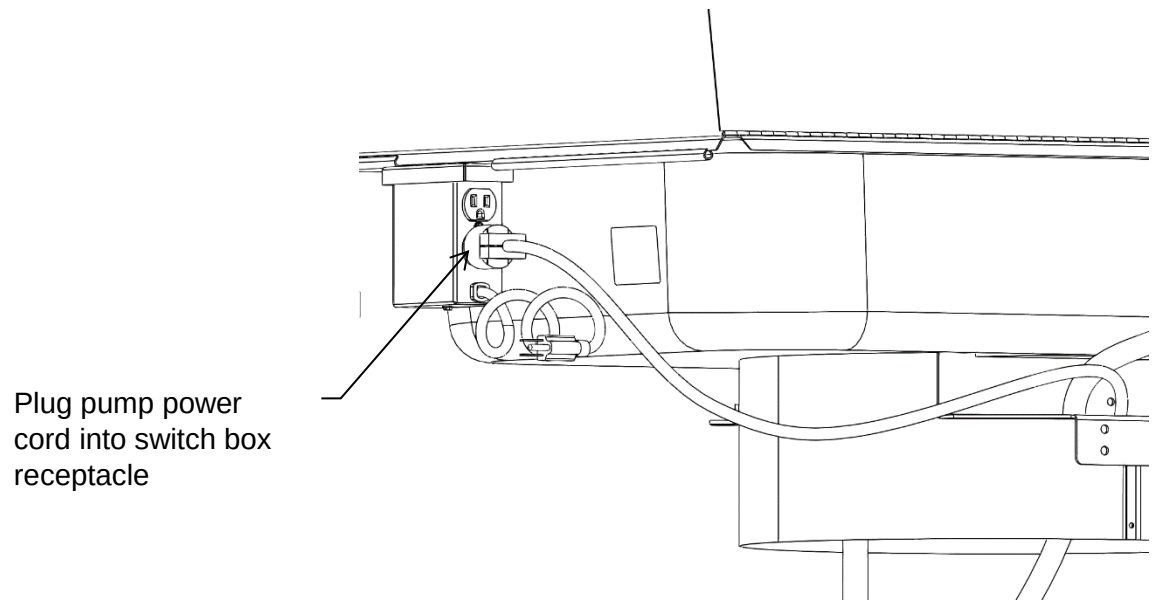
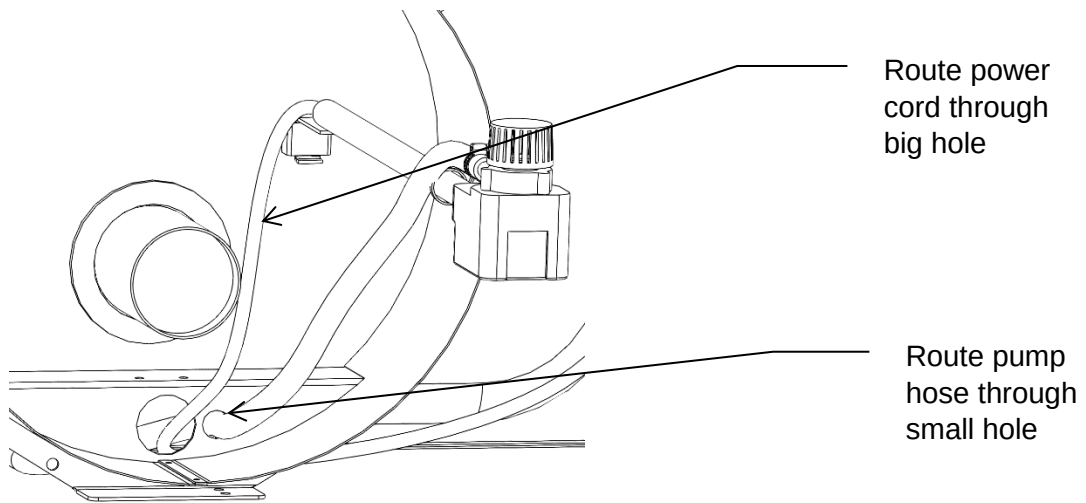


- a. Install the electrical switch box onto the right side of the sink using the provided screw and washers.

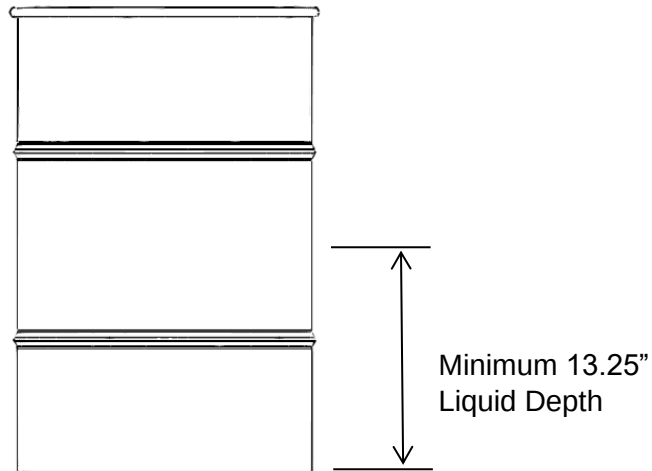


- b. Hang the pump assembly on the bottom of the sink by sliding the hook end of the pump assembly onto the bracket welded on the bottom of the sink (on the stainless steel sink the bracket the pump hooks onto is a part of the pump mounting plate). Then route the hose up through the small hole on the rear of the sink and the power cord through the large hole on the rear of the sink. Plug the power cord into the switch box. Install the pump hose onto the hose barb elbow on the back of the sink and secure using the provided hose clamp. Then place the slotted hole cap into the through hole on the back of the sink.

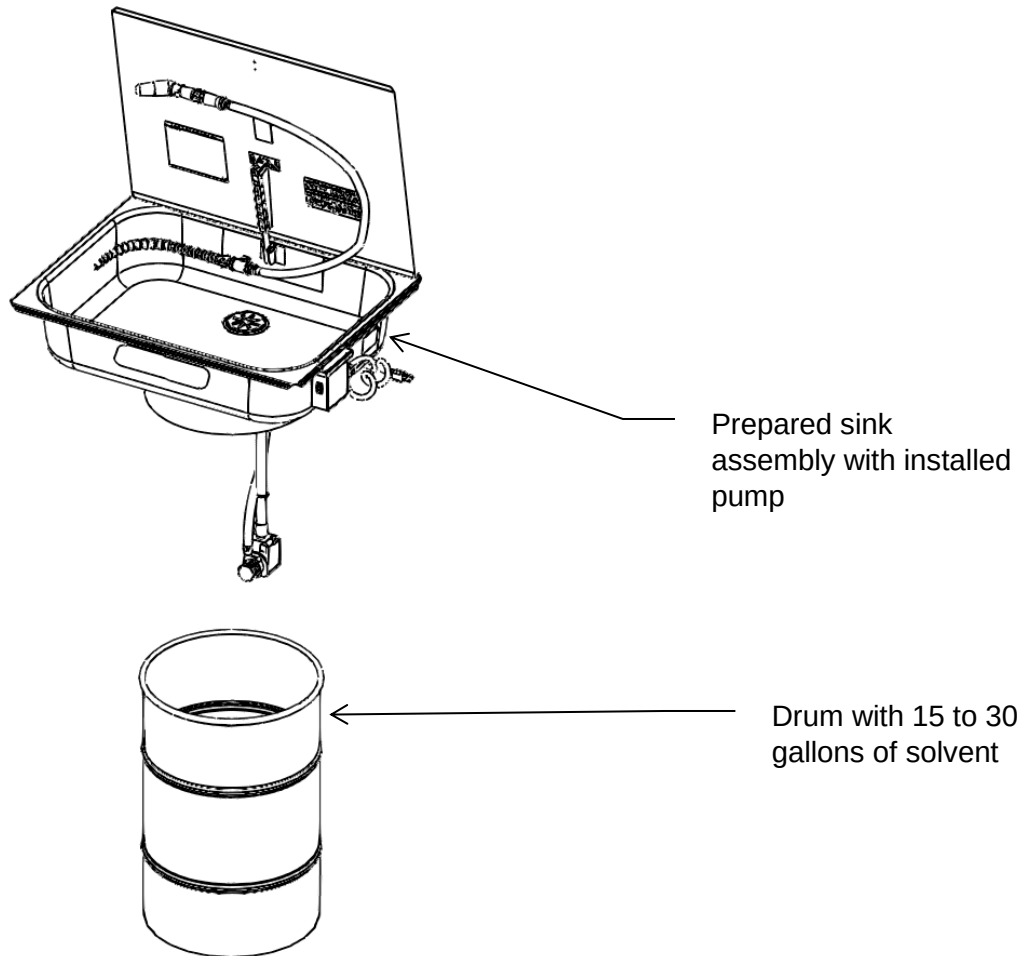




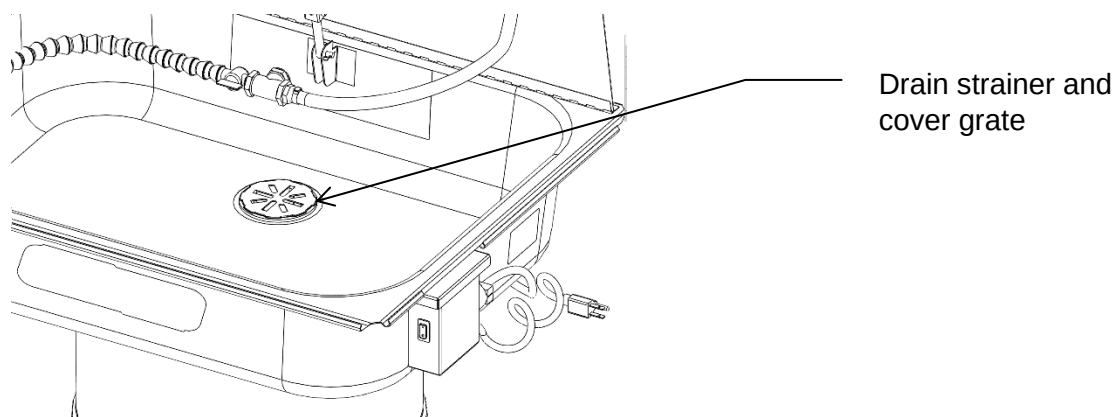
- c. Select the 30 gallon drum to be used and fill it with at least 15 gallons of solvent



- d. Place the sink on the 30 gallon drum.



- e. Place the strainer and grate cover into the drain hole of the sink.



Your parts washer is now complete and ready to plug in and operate.

V. Operation

A. Startup

1. Plug in power cord(s) into outlet. A GFCI receptacle is recommended for extra protection, but not required.
2. Put on the proper personal protective equipment (safety glasses, gloves, etc.)
3. Open the lid of the unit.

B. Use

1. Turn on the pump with the switch on the right side of the sink and control the flow of your cleaning solution using the ball valve(s).
2. Direct the flow of the solvent on to your part.
3. In most cases agitating the part with a brush or sponge will increase the cleaning solution's effectiveness.
4. Once part is clean, turn the pump switch "OFF" and allow the part to dry in a well-ventilated space.
5. Close the lid.

C. Shut Down

1. Turn off the pump
2. Unplug the power cord(s)

VI. Service and Maintenance

A. Standard Service Action

a. Solvent

It is recommended that your machine's solvent is monitored on a weekly basis. Once your solvent is no longer cleaning to your satisfaction, it is time to change it. This may occur on a weekly, monthly, or semi-annual basis and is very dependent upon use. It is recommended to keep a maintenance schedule to track the intervals of time in-between solution changes. Solution should be discarded in accordance with local regulations.

b. Reservoir Cleaning

Cleaning the drum or reservoir should take place during every solution change. Often sludge will build on the bottom of the drum. It is important to remove this sludge to increase the longevity of your cleaning solution. A drum liner can be used to make this maintenance operation less of a hassle. For mineral spirits based solvents, a nylon or polypropylene drum liner is recommended. Sludge should be discarded with the used solutions.

c. Pump

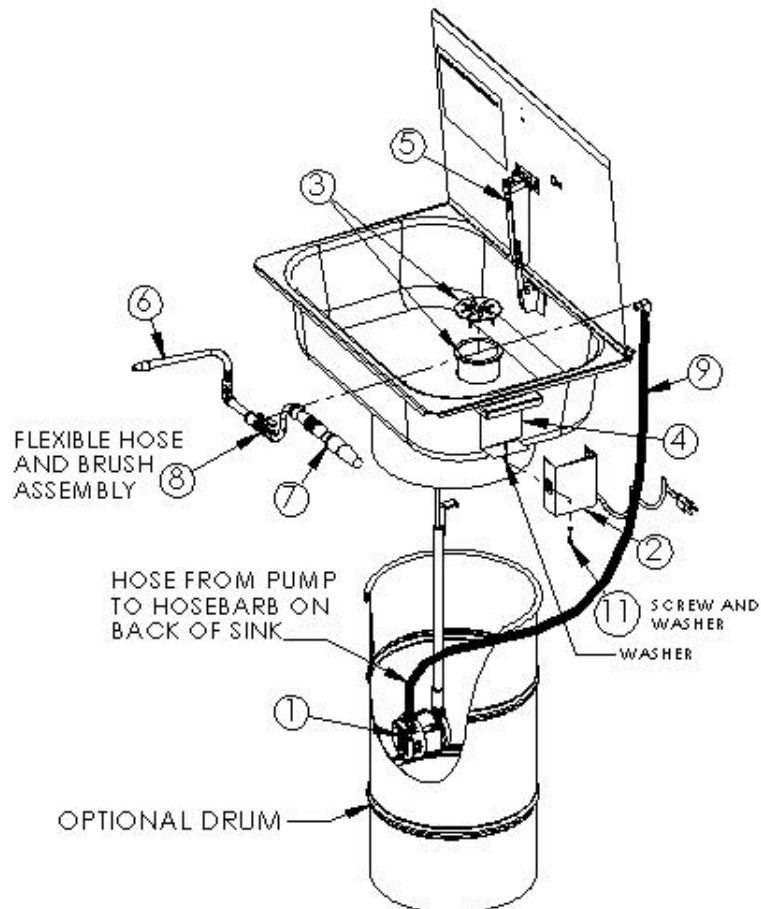
Depending on use and the type of contaminants being cleaned, it is not uncommon for the pump inlet screen to become obstructed. If this happens, flow from the pump will become restricted and affect the performance of your part cleaner. It is recommended to check the inlet screen of the pump on a weekly basis clear for any obstructions. To do this the user should disconnect power and remove the pump from the drum. A disposable towel or rag can be used to clear obstructions. Contaminated rags/towels should be discarded in accordance with local regulations.

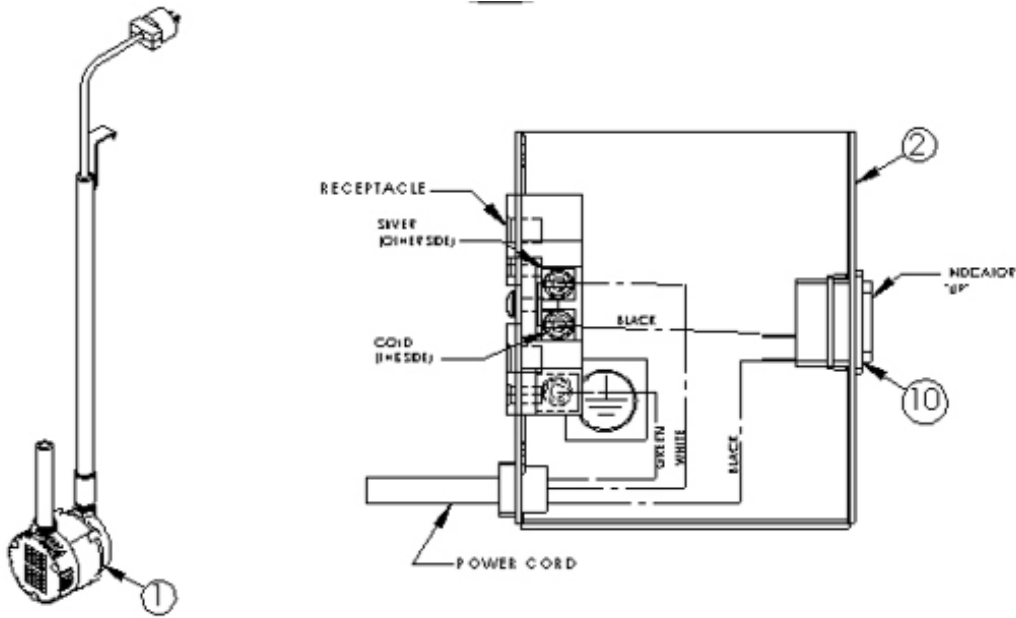
d. Fusible Link

The fusible link is an important safety device, especially when using the unit with solvents. A user should not utilize this parts washer with a non-functional fusible link. The fusible should be inspected to confirm that it is still intact before every use of this product.

B. Replacement Parts

PARTS LIST			
ITEM	QTY	Part Number	DESCRIPTION
1	1	62294	PUMP ASSEMBLY 115V
2	1	64738	CONTROL BOX ASSEMBLY and BRACKET (ITEMS 2 & 4 SOLD TOGETHER)
3	1	62298	STRAINER and GRATE
4	1	64738	CONTROL BOX ASSEMBLY and BRACKET (ITEMS 2 & 4 SOLD TOGETHER)
5	1	62297	DOOR CLOSURE
6	1	62303	FLEXIBLE HOSE
7	1	62302	BRUSH, FLO THRU
8	1	62296	FLEX HOSE/BRUSH ASSEMBLY
9	1	62305	HOSE KIT, 1/2" X 30"
10	1	62304	SWITCH, 115V ROCKER
11	1	62306	PKG, HARDWARE/PARTS
	OPTION	7322 (30 GAL)	DRUM, METAL





VII. Upgrades and Options

A. 62715 – Filter Kit

This filter kit mounts to the back of your sink and reroutes pump outlet through a filter before it enters the sink.

Includes:

- 100-micron filter
- Filter mounting head and hardware
- Hose and hose fittings

B. 64543 – Light Kit

This kit mounts a 15W led flood light to the lid of your CM230.

Includes:

- 15W led flood light
- 1200 lumens
- Mounting Bracket
- Mounting Hardware

VIII. Solvents

CAUTION: This unit has only been investigated for use with solvents indicated in this instruction manual

Solvents:

	Barsol D-660 (99R)	Barsol D-661 (HI-T)	Barsol D-659 (F99)	Barsol D-19	Barsol 142 F
Flash Point	145°F	103°F	105°F	103°F	142°F
Auto-Ignition Temperature	Lowest known value: >220°C (>428°F)	Not available	Not available	Not available	Not available
Color	Red	Clear	Blue	Clear	Clear
Fast Dry	No	No	No	Yes	No
California Rule 66 Compliant	No	Yes	No	Yes	No
Added Surfactants	Yes	Yes	Yes	No	No
Odor	Low Odor	Low Odor	Odorless	Low Odor	Low Odor
Part Numbers					
5 Gallon	193523	193540	193544	193557	193559
55 Gallon	193524	193541	193545	193558	193561
Table last updated: 9/24/2020					
NOTE: Information in the above table is subject to change at any time without notice. Refer to latest versions of each solvents respective SDS sheets to ensure accuracy.					

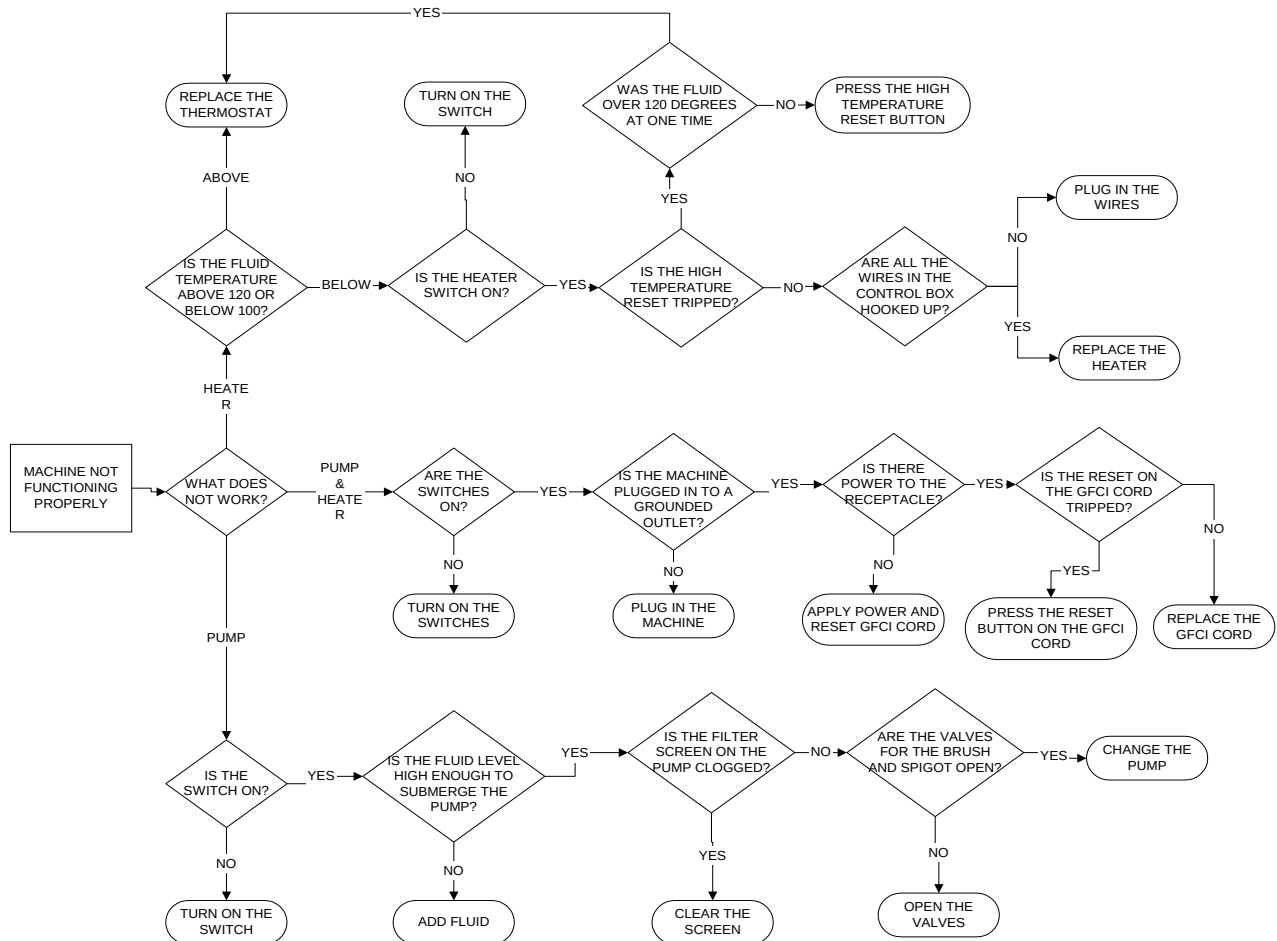
IX. Troubleshooting

A. Machine does not operate:

1. Make sure the parts cleaner is connected to electric power or air supply.
2. Check for incoming power. Check serial plate for power requirements.
3. On electric units: check reset button on GFCI cord to make sure it is not tripped. On air units: an increase in air supply may be required.

B. Little to no fluid being pumped to sink

1. Check the pump switch is "ON" and the unit is plugged in.
2. Check that the fluid level in the tank.
3. Check Pump intake for obstructions.



LIMITED WARRANTY AND LIMITATION OF REMEDIES AND DISCLAIMER. (1) Fountain Industries, LLC "Fountain" warrants the Equipment to be free from defects in material and manufacture and to conform to specifications for the Equipment at the time of shipment. This warranty is applicable only if the Equipment is installed, operated and maintained in accordance with factory recommendations and procedures, including, but not limited to, the use of Fountain's approved solutions or accessories. If any Equipment fails to conform to the specifications or samples or any defect in material or manufacture appears within twelve (12) months from the date of initial purchase by end user Fountain's entire liability, and Customer's or end user's exclusive remedy, shall be, to either repair or replace such defective Equipment, at Fountain's option, within a reasonable time after written notification thereof and return of the defective Equipment to Fountain.

(2) THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, ANY IMPLIED WARRANTY ARISING OUT OF COURSE OF DEALING OR OF PERFORMANCE, CUSTOM OR USAGE OF TRADE EXCEPT OF TITLE AND AGAINST PATENT INFRINGEMENT.

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FOUNTAIN'S LIABILITY ON ANY CLAIM OF ANY KIND (INCLUDING NEGLIGENCE) FOR ANY LOSS OR DAMAGE ARISING OUT OF OR RESULTING FROM THIS AGREEMENT, OR FROM THE PROFORMANCE OR BREACH THEREOF, OR FROM THE EQUIPMENT FURNISHED HEREUNDER SHALL IN NO CASE EXCEED THE PRICE OF THE SPECIFIC EQUIPMENT WHICH GIVES RISE TO THE CLAIM. ALL SUCH LIABILITY SHALL TERMINATE UPON THE EXPIRATION OF THE WARRANTY PERIOD AS STATED HEREIN.

These limitations apply regardless of whether such damages are sought based on breach of contract, negligence, strict liability in tort or any other legal theory.

(4) Any action for breach of warranty or any other obligation under these Terms and Conditions must be commenced within one (1) year from the purported date of breach.

(5) Each limitation on liability or remedy set forth in these Terms and Conditions is independent of any other limitation or if they are otherwise held to be unenforceable, that shall not affect the validity of any other such limitation or remedy.

Fountain assumes no liability for any claims for injury or damages to persons or property arising from any chemical manufactured by Customers or by any third party vendors for use in any Fountain's equipment.

Terms or conditions contained in any Customer purchase order or similar document that in any manner purport to alter, modify, change, or suspend these terms shall be deemed excluded from such purchase order and expressly waived by the Customer.

This limited warranty does not cover or include any consumable/wearable products, such as filters or brushes, associated with such equipment.

Fountain assumes no liability for any unauthorized modifications carried out to the equipment not strictly recommended by the factory procedures or recommendations.

This limited warranty is not transferable, and does not cover any general equipment maintenance, demonstration, installation, routine servicing, calibration or customization of any equipment.

No person is authorized to alter or extend this limited warranty unless made in writing and signed by an authorized officer of Fountain.

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