
SPRAY-AND-VAC

OPERATOR & PARTS MANUAL

P/N: MANUALOSV



OPERATOR & PARTS MANUAL - TABLE OF CONTENTS

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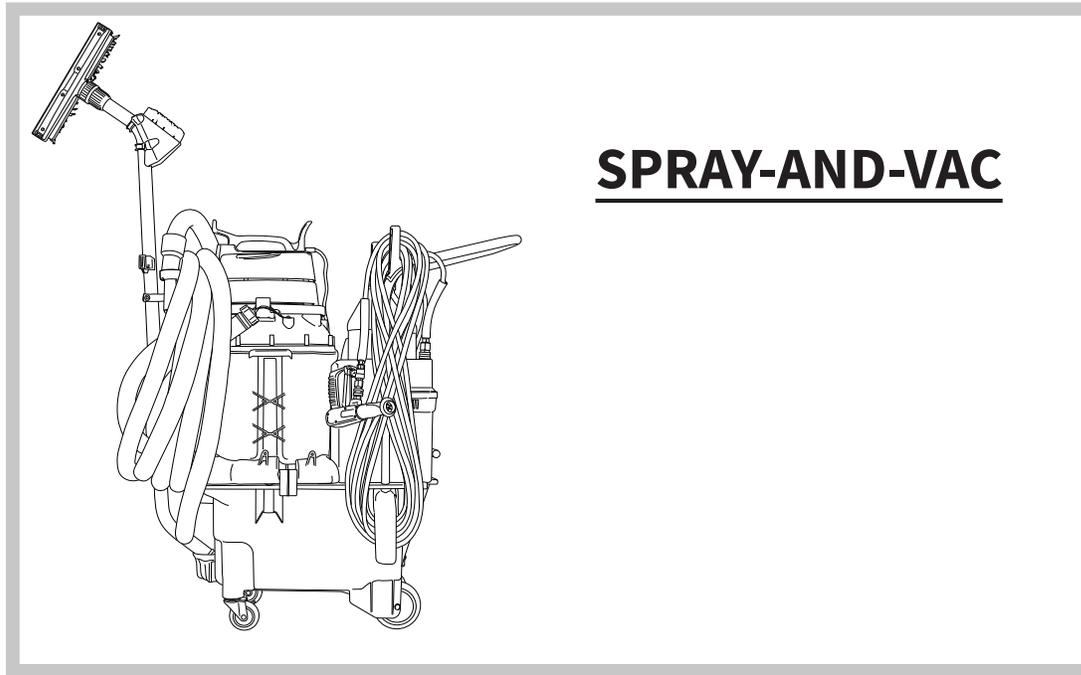
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1.1 PRODUCT IDENTIFICATION



1.2 WARRANTY REGISTRATION

Thank you for purchasing a Kaivac product. Please take a few moments to register your product at kaivac.com/warranty.

Why register?

- Ensure your warranty coverage
- Simplify warranty service in the future with your information on file
- Be the first to know about upgrades, issues, new options and special offers.

1.3 LIMITED WARRANTY PROTECTION PLAN

5 YEAR TROLLEY/TANK AND 1 YEAR PARTS AND LABOR (EXCLUDING BATTERY) Kaivac warrants to the original purchaser/user that the vacuum tank and bucket body are free from defects in workmanship and materials under normal use for a period of Five Years, and the battery box body and components (excluding Lithium-ion battery), vacuum motor, and spray system are free from defects in workmanship and materials under normal use for a period of One Year. This warranty does not include accessories or wear items. Items EXCLUDED from coverage: Squeegee blades and wheels, hoses, seals, gaskets, cords, casters, HEPA filter cartridges, chemical feed caps, spray gun, GFCI, vacuum wand assembly and other accessory tools.

- *Please Note:* using inappropriate chemicals constitutes misuse of these machines. These machines are not meant to be used with high-foaming or corrosive chemicals. Please check with your distributor or with Kaivac if you have questions about your chemical.

WARRANTY LIMITATIONS:

- This warranty does not assume responsibility for damage or faulty performance caused by misuse or abuse, or where repairs or modifications have been made or attempted. Kaivac will make the final determination on whether the damage falls under this limited warranty for manufacturer's defects.
- The following actions constitute misuse or neglect of the battery that void the warranty of the battery:
 - Any modifications to Kaivac equipment may nullify any warranty
 - Improper installation of the OmniFlex battery box
 - Exposure to temperatures above the battery limits
 - Use of any charger besides the supplied OminFlex charger
 - Dropping the battery box
 - Long term storage of the battery without maintaining a battery charge of 25 to 40% capacity
- Under no circumstances will Kaivac be liable for any loss, damage, expenses or consequential damages arising in connection with the use or inability to use Kaivac's product. This warranty is in lieu of any other warranty expressed or implied, including any warranty of merchantability or fitness for a particular purpose.

1.4 SAFETY PRECAUTIONS: CORDED UNITS ONLY

IMPORTANT SAFETY INSTRUCTIONS — SAVE THESE INSTRUCTIONS READ ALL INSTRUCTIONS BEFORE USING (THIS APPLIANCE)

When using an electrical appliance, basic precautions should always be followed, including the following:



WARNING: To reduce the risk of fire, electric shock, or injury:

- Turn off the unit before unplugging. Do not leave appliance when plugged in. Unplug from outlet when not in use and before servicing.
- Connect to a properly grounded outlet only. Do not remove ground pin. See Grounding Instructions below.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Use only as described in this manual. Use only manufacturer's recommended attachments.
- Inspect cord prior to use. Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors or dropped into water, return it to a service center.
- Do not handle plug or appliance with wet hands.
- Do not pull or carry by cord, use cord as handle, close a door on cord, or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
- Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts. Turn off all controls before unplugging.
- Use extra care when cleaning on stairs.
- Do not use to pick up flammable or combustible liquids such as gasoline, or use in areas where they may be present.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches or hot ashes.
- If using extension cord with appliance, make sure the connection is above the floor and away from exposure to liquid.
- Keep all connections dry and off the ground.
- To reduce the risk of injury, close supervision is necessary when a product is used near children.
- Stay alert - watch what you are doing.
- Keep operating area clear of all persons.
- The Kaivac shall be disconnected from mains during cleaning or maintenance and when replacing parts or converting the machine to another function.
- Turn off all controls before unplugging.
- DO NOT overreach or stand on unstable support. Keep good footing and balance at all times.
- DO NOT operate without the float installed. If float is removed, reinstall by screwing back into place.
- Keep the cord away from heated surfaces.
- DO NOT leave appliance when plugged in. Unplug from outlet when not in use and before servicing.
- To Reduce The Risk Of Electric Shock - Do not expose to rain. Store indoors.
- DO NOT use without dust bag and/or filters in place.
- Personal Protective Equipment (PPE): It is recommended to wear proper personal protective equipment as required by the chemical product label instructions used in conjunction with the appliance.
- This product comes with a grounded attachable extension cord. If damaged, replace with equivalent cord. This cord must be attached and mechanically secured using the provided cord connector to use the equipment.
- **WARNING** — Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance – if it will not fit the outlet; have a proper outlet installed by a qualified electrician.
- DO NOT operate the product when fatigued or under the influence of alcohol or drugs.
- Know how to stop the product and bleed pressures quickly. Be thoroughly familiar with the controls.
- Follow the maintenance instructions specified in the manual.

1.4 SAFETY PRECAUTIONS: CORDED (CONTINUED)

SPRAY SYSTEM WARNINGS (ONLY):

- Do not spray liquid from the Kaivac onto electrical outlets or any electrical devices.
- Risk of injection or injury to persons - do not direct discharge stream at persons.
- INJECTION HAZARD: Equipment can cause serious injury if the spray permeates the skin. Do not point the gun at anyone or any part of the body. In case of permeation, seek medical aid immediately.
- This system is capable of producing 500 PSI (3447 kPa). To avoid rupture and injury, do not operate this pump with components rated less than 500 PSI (3447 kPa) working pressure (including but not limited to spray guns, hose, and hose connections); and before servicing, cleaning or removal of any part, shut off power and relieve pressure.
- High pressure cleaners shall not be used by children, persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge or untrained personnel. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- This product may also have been provided with a ground fault circuit interrupter built into the power cord. If replacement of the plug or cord is needed, use only identical replacement parts.
- Test the ground fault circuit interrupter (GFCI) before each use.

GROUND FAULT CIRCUIT INTERRUPTER PROTECTION *(for spray systems only)*

This machine was supplied with a ground-fault circuit-interrupter(GFCI) built into the plug of the power-supply cord. This device provides additional protection from the risk of electric shock. Should replacement of the plug or cord become necessary, use only identical replacement parts that include GFCI protection.

This appliance is for use on a nominal circuit and has a grounding attachment plug. Make sure that the appliance is connected to an outlet having the same configuration as the plug. No adapter should be used with this appliance.

GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

FOR INDOOR USE ONLY

INTENDED FOR COMMERCIAL USE

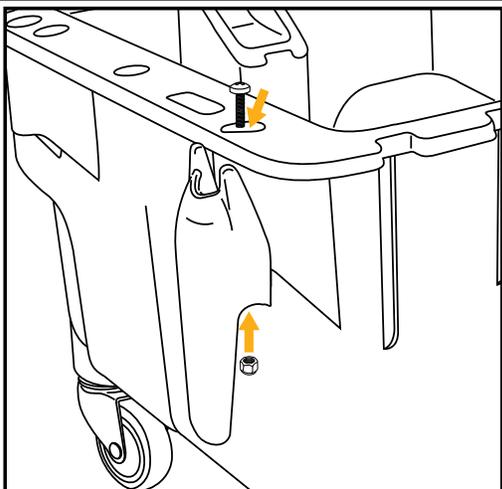
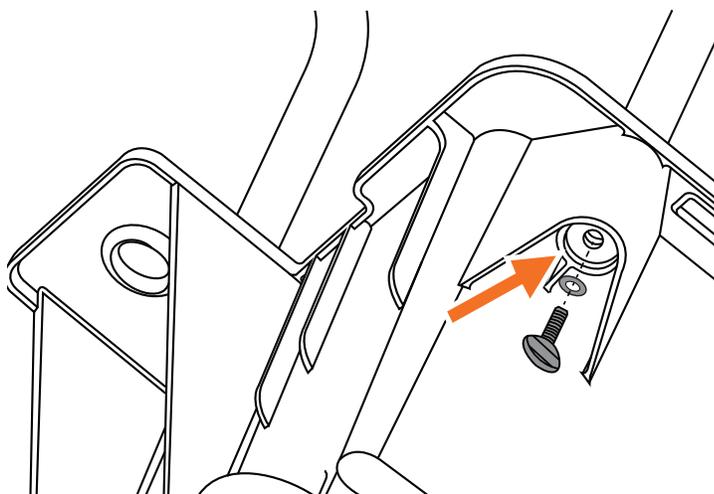
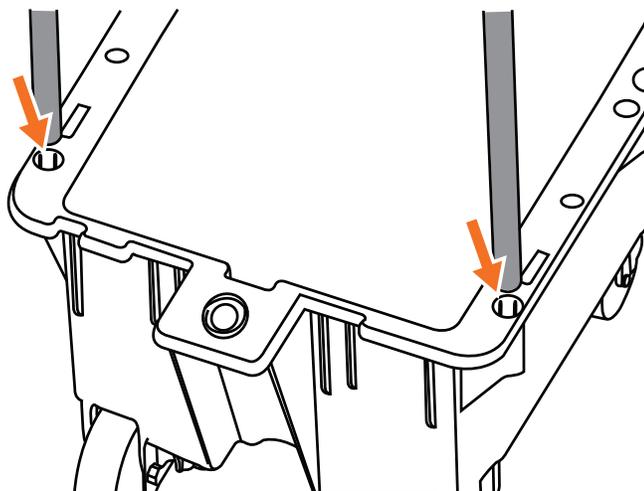
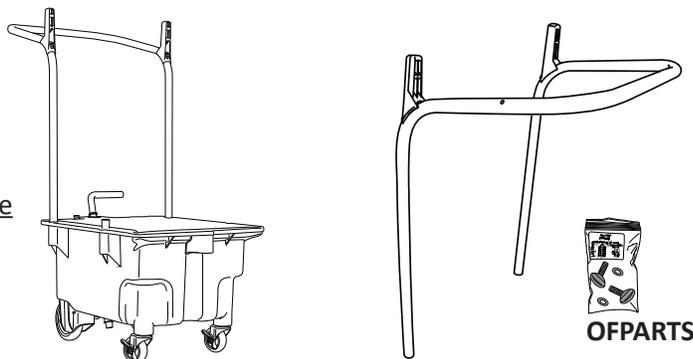


WARNING — To Reduce the Risk of Electric Shock — Do not expose to rain. Store indoors.

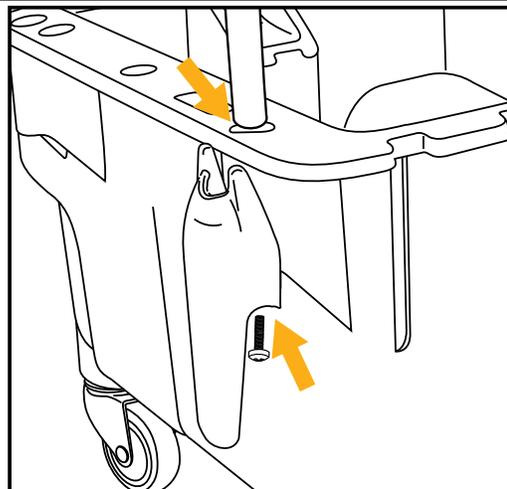
2.1 ATTACHING HANDLE TO TROLLEY BUCKET

Handles: Contact Kaivac Customer Service for more details at 1-800-287-1136.

OFUHA - 4 Bend Handle



Follow included instructions to attach OHORN using screw and nut

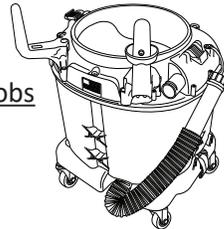


Or follow included instructions to attach OHORN screwing directly into Handle

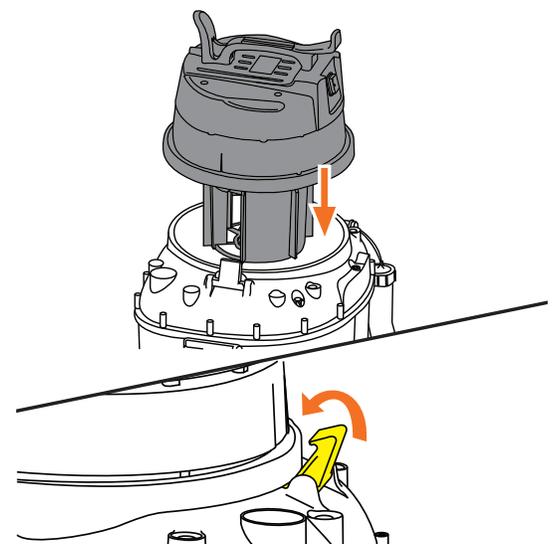
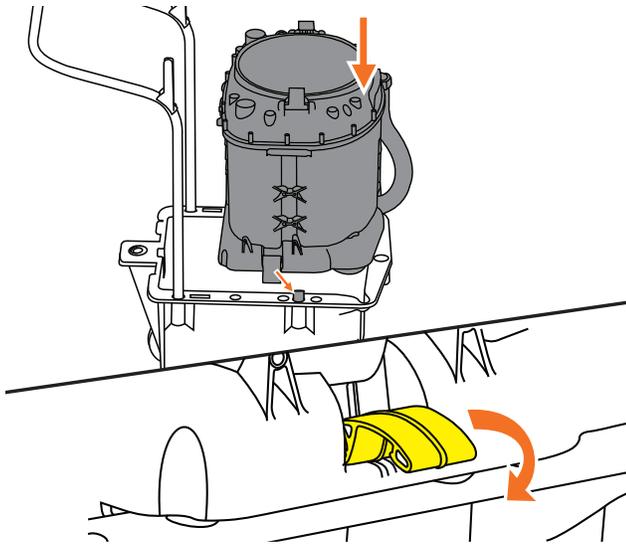
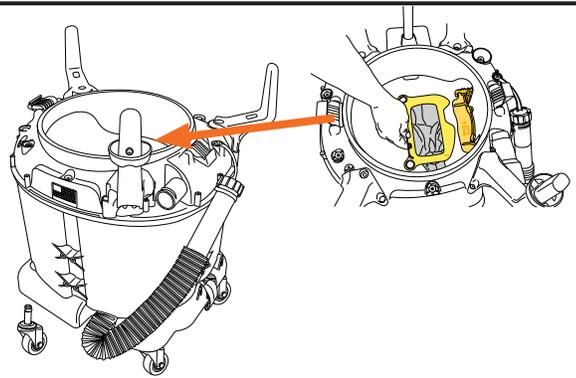
2.2 VACUUM TANK ASSEMBLY

Vacuum Tanks: There are multiple options available based on purchased package. Contact Kaivac Customer Service for more details at 1-800-287-1136.

OVT01 - Vacuum Tank - 2 Stobs
Standard Offerings:
 -Spray-and-Vac



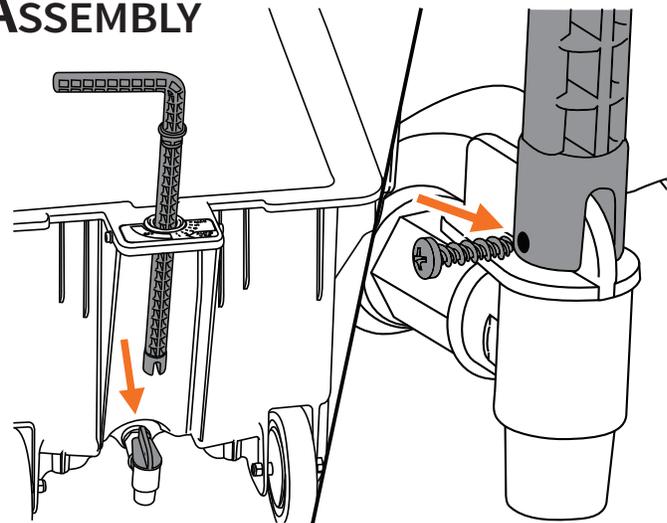
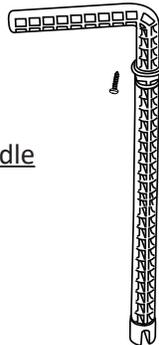
Stob



2.3 SPIGOT/EXTENSION ROD ASSEMBLY

Spigot Controls: There are multiple options available based on purchased package. Contact Kaivac Customer Service for more details at 1-800-287-1136.

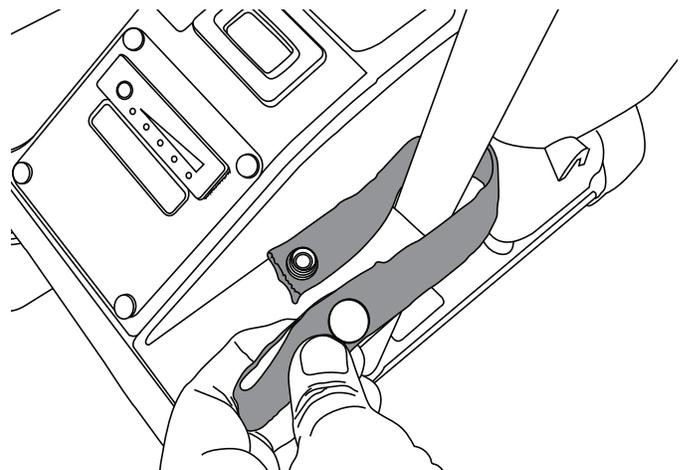
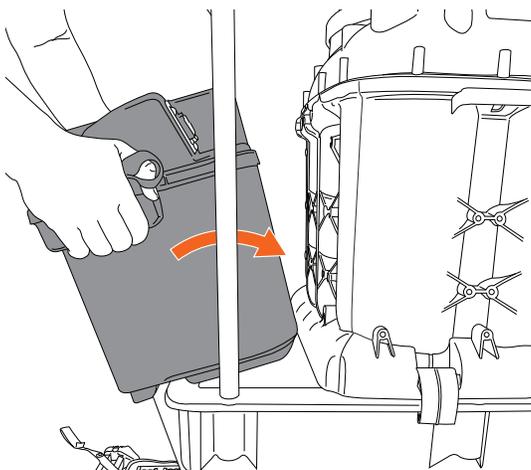
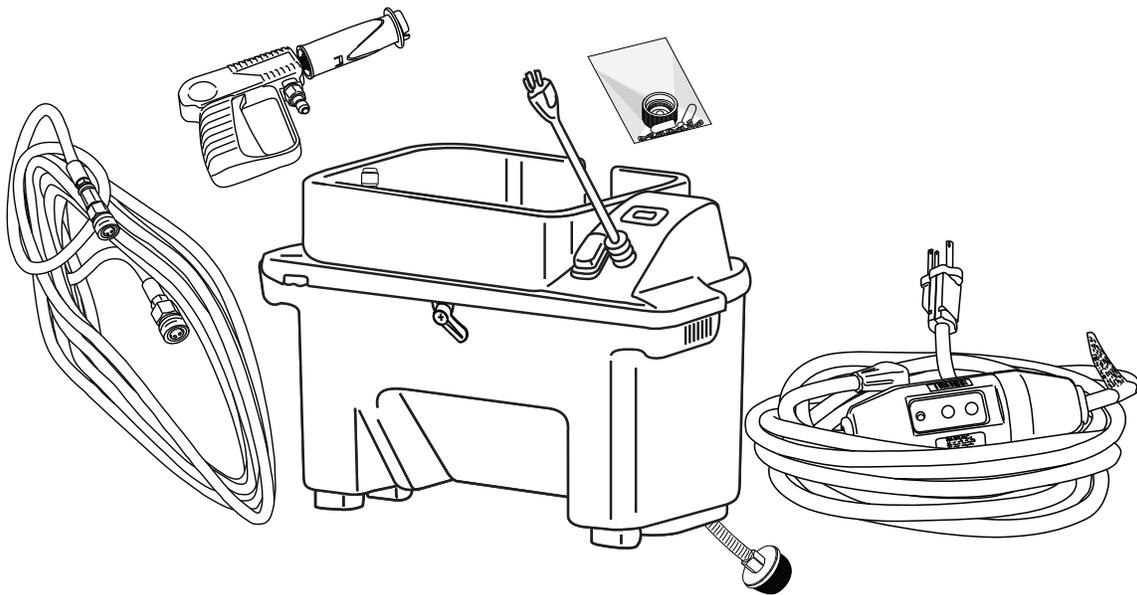
KMFSH - Plastic Spigot Handle
Standard Offerings:
 -Spray-and-Vac



2.4 PUMP BOX ASSEMBLY

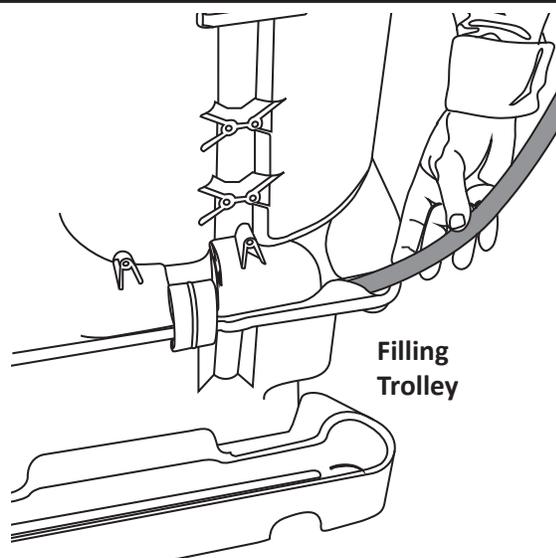
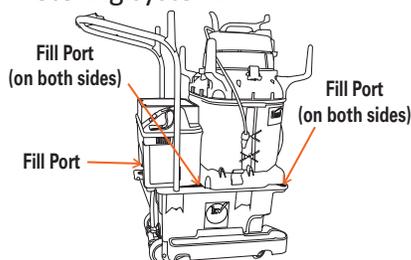
OSU50 Pump Box: There are multiple options available based on purchased package. Contact Kaivac Customer Service for more details at 1-800-287-1136.

**See Pump Box Assembly parts diagram on page 21 for full list of part numbers and options depending on location or package.



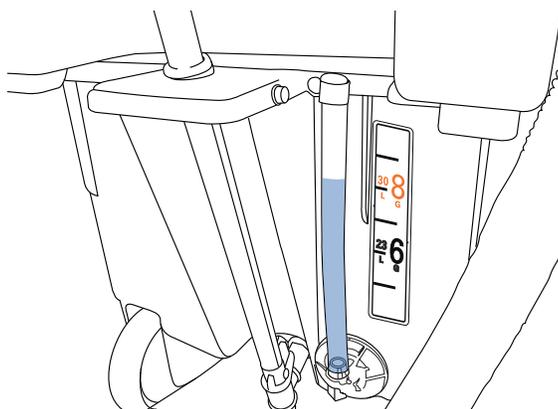
3.1 FILLING THE UNIT

For the Spray-and-Vac offering, there are multiple Fill Ports available to fill the Bucket with water using a hose or other source. The Fill Port locations should NOT be used to add chemical directly to the water. Attach chemical source to metering system.

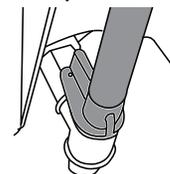


Note the location of the Sight Gauge on the back of the Trolley-Bucket.

The Trolley-Bucket has a label with graduated markings. Gallon markings are displayed for 5 to 9 gallons. For lesser quantity needs, the bottom of the label represents 4 gallons. For higher volume needs, the top of the label represents 10 gallons. Filling over 10 gallons is not recommended.



CAUTION: Before filling with solution, ensure the spigot is in the "OFF" position.



Fill the tank with Kaivac Chemicals. Follow the proper dilution instructions on bottles or dispenser. For accuracy and convenience, use Kaivac proportioned chemical packets. **Do not add chemical to Trolley-Bucket if using Pump Box set-up.**

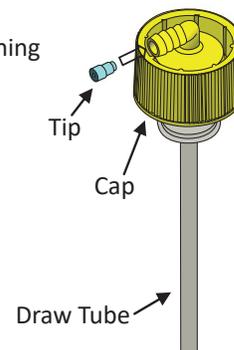
TIP: IF A CHEMICAL IS BEING USED, USE ONLY THE RECOMMENDED DILUTION.

3.2 SPRAY-AND-VAC OPERATION

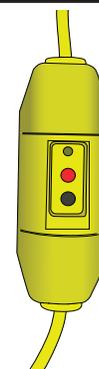
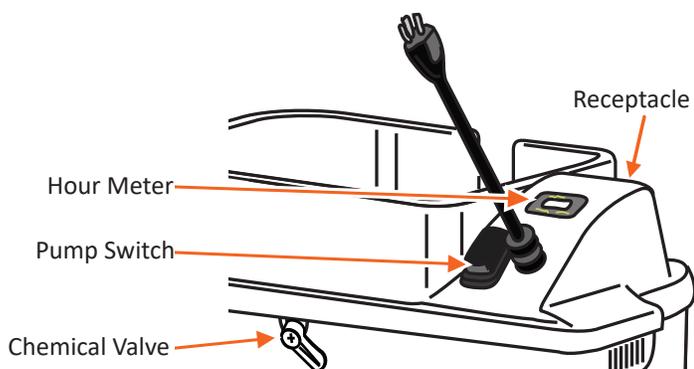
The OmniFlex Spray-and-Vac system combines the 500 psi OmniFlex Pump System with the Wet Vacuum and the Trolley-Bucket for extreme soil removal. It empowers workers to clean hygienically without touching contaminated surfaces.

WARNING: DO NOT PUT CHEMICAL IN TROLLEY-BUCKET RESERVOIR WHEN USING PUMP! DOING SO WILL CAUSE PRODUCT DAMAGE.

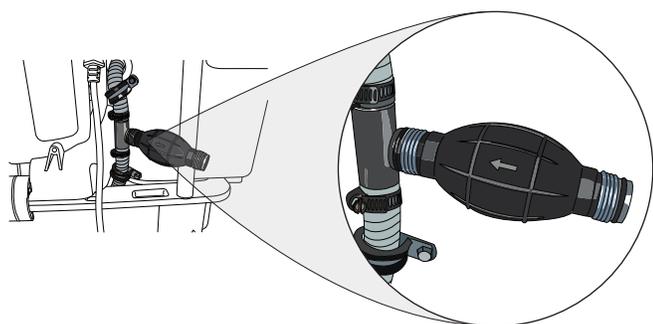
To prepare the cleaning chemical, make sure the Draw Tube is inserted into the Chemical Jug. Insert the Metering Tip as shown (see Metering Tip Selection Chart on the Metering Tip Bag). Then screw the Chemical Cap onto the Chemical Jug and make sure the clear Chemical Line is connected to the Chemical Cap.



Review Control Panel. Make sure Pump Switch and Chemical Valve are in OFF position prior to plugging in. If using with OmniFlex Vacuum Motor, plug in the Vacuum Cord into control panel Receptacle.

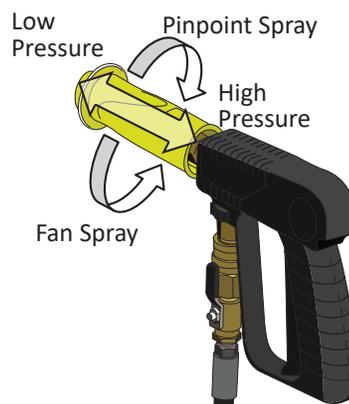


Plug in and press the Black Test button on the GFCI (Ground Fault Circuit Interrupter), then Red Light should turn off. Then press the Red Reset button and Red Light should come on.



To prime the pump: Squeeze Primer Bulb 10 times prior to initial startup, or if pump has been run dry for any length of time.

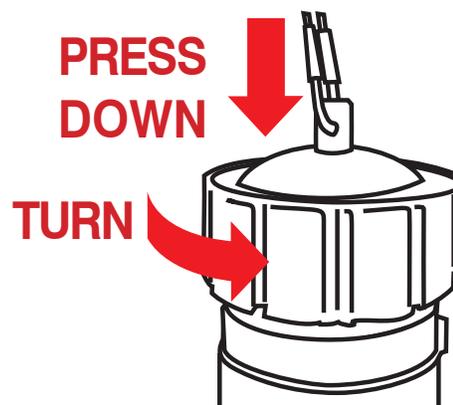
Operate the Spray Gun as shown. Chemicals applied in the Low Pressure setting only. Chemicals must be cleared from the Spray Line prior to High Pressure rinsing. To do this, turn OFF the Chemical Valve, then spray in Low Pressure settings for 15 seconds.



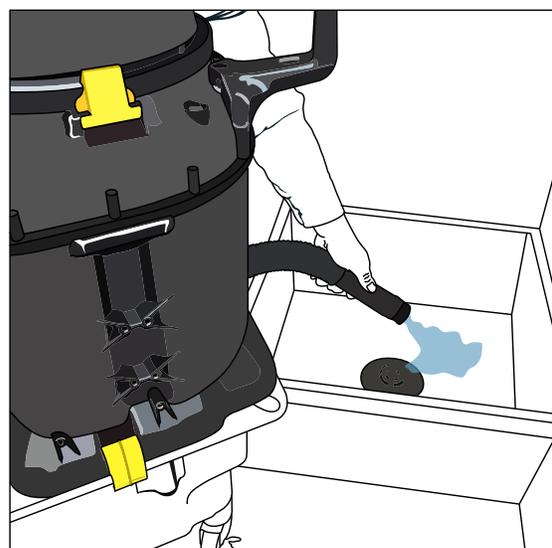
3.3 EMPTYING VACUUM TANK

If the Vacuum Motor shuts off before the job is complete, the Vacuum Tank may be full and need to be emptied. Lift the Vacuum Motor to check liquid level inside the Vacuum Tank. If unit is full or your job is complete, follow the instructions below to empty Tank into appropriate sink/drain.

To begin the dumping process, you must first press down on the Cap and turn counter-clockwise

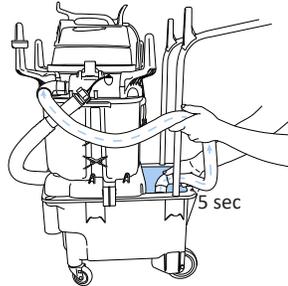


Once cap is removed, lower Dump Hose into appropriate sink/drain. To prevent an accidental spill or overflow from the Dump Hose, be careful to keep hose end upright until it is over sink/drain.

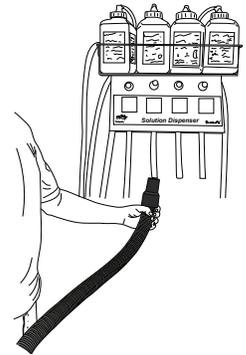


4.1 DAILY MAINTENANCE: CLEAN-OUT

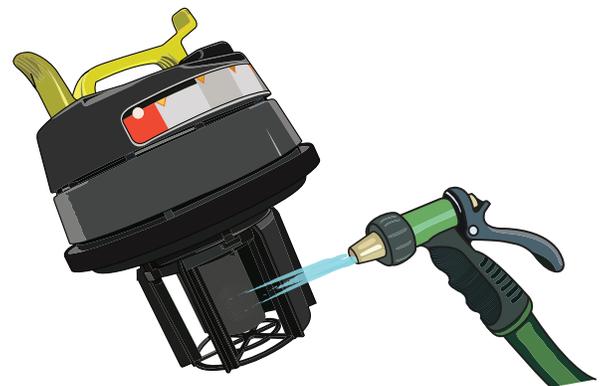
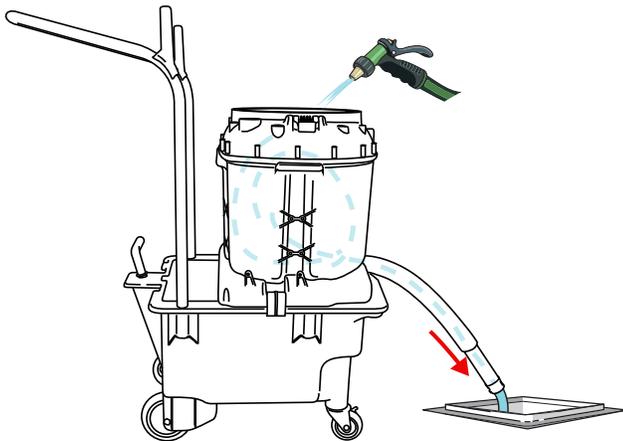
When work is complete, vacuum excess cleaning solution from the bucket for 5 seconds to clean out and degrease the Vacuum Hose.



Alternatively, you can also turn Vacuum on and dispense solution into Vacuum Hose as shown to clean Hose and Tank.



Rinse Vacuum Tank thoroughly at clean-up sink, preferably with hot water.



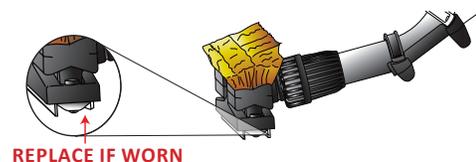
Remove debris from float ball and wire mesh Float Cage housing with hot water.

Rinse the Wand brushes to clear any debris, and wipe dry.



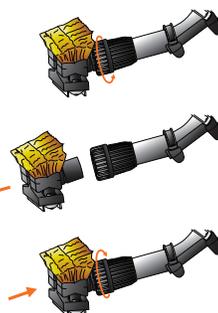
4.2 REPLACEMENT (MONTHLY)

The following tasks should be performed monthly to keep your system operating at peak performance.



Check for worn Squeegee Blades. Worn blades cause streaking and loss of vacuum suction.

Unscrew cuff at end of Vacuum Wand, remove old Squeegee Head and replace with new every 6-8 weeks for optimal performance.



IMPORTANT: If cuff is removed, ensure Brass Ring stays in place.



4.3 TROUBLESHOOTING TIPS

• POOR VACUUM PICKUP

1. Check Squeegee Blades. If blades are worn or damaged, replace Squeegee Head.
2. Clean Float Cage.
3. Check for leaks in the Vacuum Hose or Gasket.
4. Check for clogged Vacuum Hose.
5. Check to see if float ball was tripped.

• VACUUM SHUTS OFF PREMATURELY

1. Check Float Cage; clean if dirty
2. Cleaning Chemicals may be producing too much foam. Use correct Chemicals.

• OTHER ISSUES? CONTACT TECHNICAL SUPPORT

PHONE:

United States and Canada: 1-800-287-1136

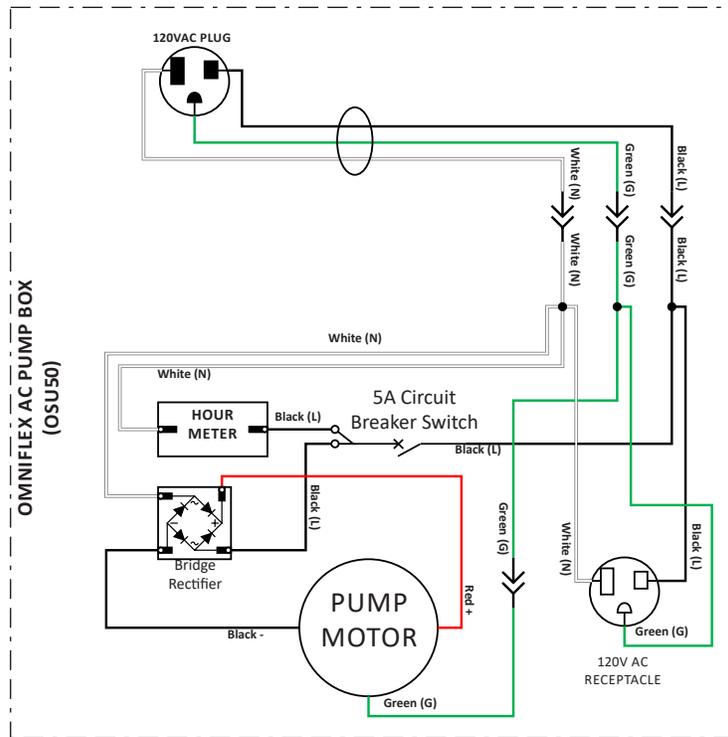
International: 1-513-887-4600

EMAIL:

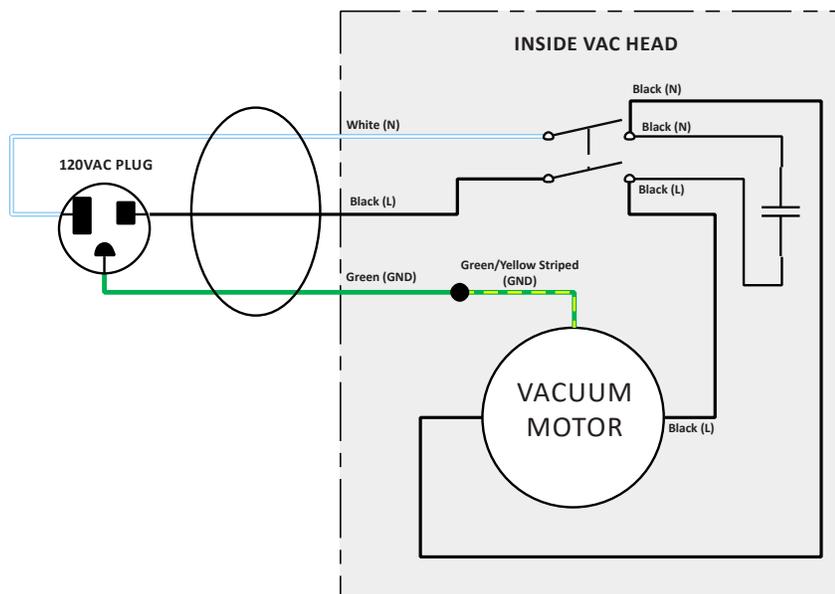
info@kaivac.com

For Technical Support Contact Form go to: <https://www.kaivac.com/contactus.php> and choose Technical Support tab.

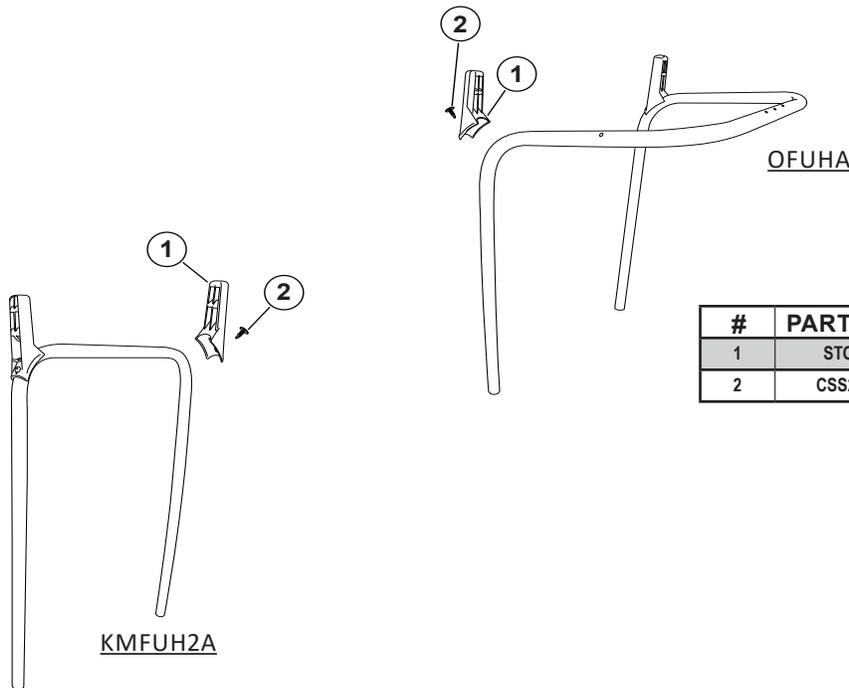
4.4 PUMP BOX ELECTRICAL DIAGRAM



4.5 AC/CORDED VAC HEAD ELECTRICAL DIAGRAM



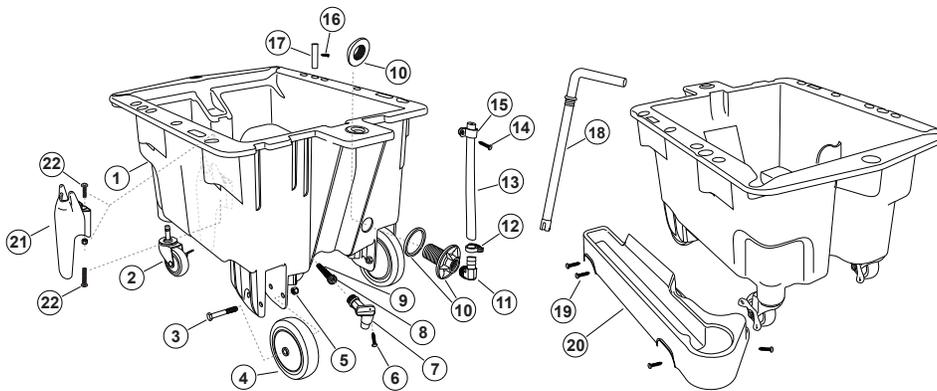
5.1 HANDLE ASSEMBLY PARTS DIAGRAM



[P/N: OFUHA or KMFUH2A]

#	PART NO.	PART DESCRIPTION
1	STOB	PLASTIC HANDLE POST
2	CSS208	HANDLE POST HARDWARE

5.2 TROLLEY-BUCKET ASSEMBLY PARTS DIAGRAM



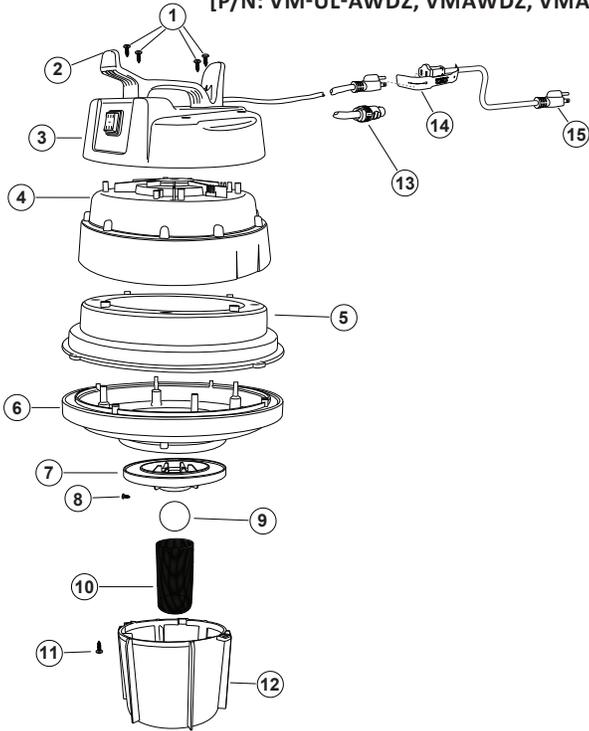
[P/N: KMF01]

#	PART NO.	PART DESCRIPTION
1	KMFBLK	OMNIFLEX TROLLEY BLACK
2	KMFCSTR3	LOCKING CASTER
3	CSS302	3/18 - 16 X 2 3/4 HEX SCREW WHEEL
4	WH5KMF2	5 IN DIA REAR WHEEL
5	CSS311	3/8 - 16 NYLON LOCK NUT
6	CSS214	10 - 14 X 3/4 SCREW FOR SPIGOT
7	KMB20R	OMNIFLEX SPIGOT BROWN PLASTIC
8	CPS39V	VITON O-RING
9	CPS07	PLASTIC FINGER FILTER
10	CSS330	1/2 IN GREY BULKHEAD FITTING
11	CSS333	90 DEG BRASS 1/2 NPT X 1/2 BH

12	CSS114	NYLON SNAP GRIP CLAMP SIZE F
13	ST9	SIGHT TUBE 9 INCH
14	CSS208	8 X 1/2 SS TRUSS SCREW
15	CPS70	HOSE TIE DOWN, BLACK
16	CSS17A	8 SST SCREW 3/4
17	OTP	OMNIFLEX TROLLEY POST .85 DIA X 3.5 LNG
18	KMF5H	OMNIFLEX SPIGOT HANDLE BLACK
19	CSS17A	8 SST SCREW 3/4
20	KF013A	SIDE TRAY FOR KAIMOTION FLEX
21	OHORN	OMNIFLEX CORD WRAP HORN
22	CSS319	1/4-20 X 3/4 SS PAN MACHINE SCREW + 1/4-20 NUT
22	CSS320	1/4-20 X 1 1/2 SS PAN MACHINE SCREW

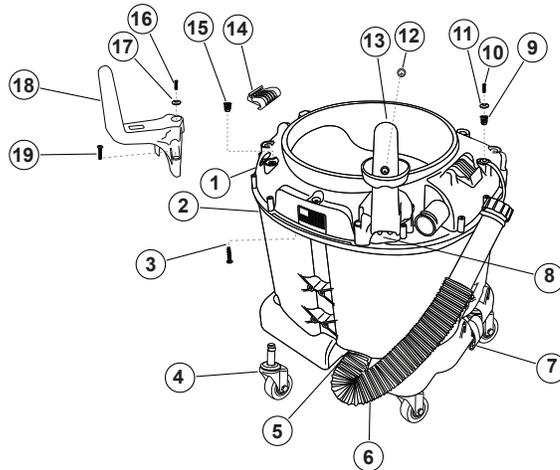
5.3 VACUUM HEAD ASSEMBLY PARTS DIAGRAM

[P/N: VM-UL-AWDZ, VMAWDZ, VMAWDZ240V(AUS,EU,UK), VMAWDZ240VI]



#	PART NO.	PART DESCRIPTION
1	CSS17A	8 SST SCREW 3/4 IN
2	OVMHAN	OMNIFLEX VAC MOTOR HANDLE BLACK
3	ZD10TC	OMNI VAC MOTOR TOP COVER
4	ZD10MC	OMNI VAC MOTOR MIDDLE COVER
5	ZD10MR	OMNI VAC MOTOR MIDDLE RING
6	ZD10BC	OMNI VAC MOTOR BOTTOM COVER
7	FCINT	FLOAT CAGE PLASTIC INTERFACE
8	CSS318	5/6" SS PHILLIPS FOR ZD 10/FCINT
9	CVS26	OMNIFLEX FLOAT BALL
10	ZD10	STAINLESS STEEL FLOAT CAGE
11	CSS313	SCREW #7 PANHEAD PHIL SS 1/2 IN
12	ZD10B	OMNI VAC MOTOR BASKET
13	CSS315AU	AUS PLUG IP44
13	CSS315UK	UK PLUG IP44
14	CORDCON	VELCRO CORD CONNECTOR (OPTIONAL)
15	EXT15	15 FT 120V EXTENSION CORD
15	EXT15EU	15 FT 240V EXTENSION CORD EUROPEAN
15	EXT15UK	15 FT 240V EXTENSION CORD UK
15	EXT15AUS	15 FT 240V EXTENSION CORD AUSTRALIA
15	EXT15I	15 FT 16GA EXTENSION CORD BLK TWIST LOCK

5.4 VACUUM TANK ASSEMBLY PARTS DIAGRAM



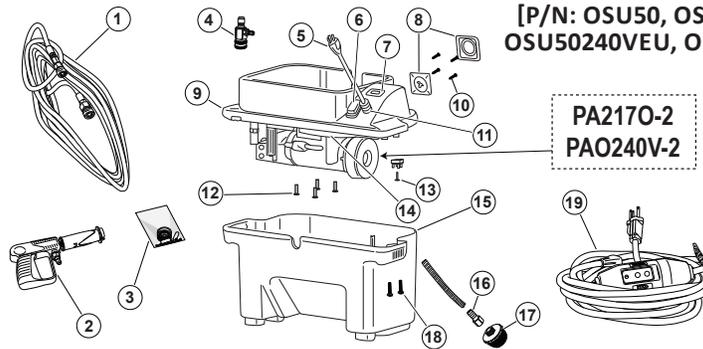
[P/N: OVT01]

#	PART NO.	PART DESCRIPTION
1	OVTBLK	OMNIFLEX VAC TANK TOP BLACK
2	OVTBBLK	OMNIFLEX VAC TANK BOTTOM BLACK
3	CSS325	8 X 3/4 TORX PAN PLAST
4	VTCSTR	OMNIFLEX VAC TANK CASTER 2 IN
5	CSS03	1 9/16 - 2 1/2 HOSE CLAMP
6	DH25	25" X 1.5" DUMP HOSE 2" CUFF
7	CLASP2Y	OMNIFLEX CLASP LOWER
8	OSTOB2	OMNIFLEX MULTI PURPOSE POST - HOSE PORT
9	CSS211	8/32 IN. FOR MOLDS

10	CSS209	8-32 X 3/4 ROUND HEAD MACHINE SCREW
11	CSS306	WASHER BONDED NEOPRENE 1/4ID X 5/8OD
12	CSS208	8 X 1/2 SS TRUSS SCREW
13	VHDTY	VAC HOSE DRIP TRAY
14	CLASP1Y	OMNIFLEX CLASP UPPER
15	CSS211	8/32 IN. INSERT FOR MOLDS
16	CSS209	8-32 X 3/4 ROUND HEAD MACHINE SCREW
17	CSS306	WASHER BONDED NEOPRENE 1/4ID X 5/8OD
18	OSTOB	OMNIFLEX MULTI PURPOSE POST
19	CSS322	10 X 3/4 PHL PAN HI-LO

5.5 PUMP BOX ASSEMBLY PARTS DIAGRAM

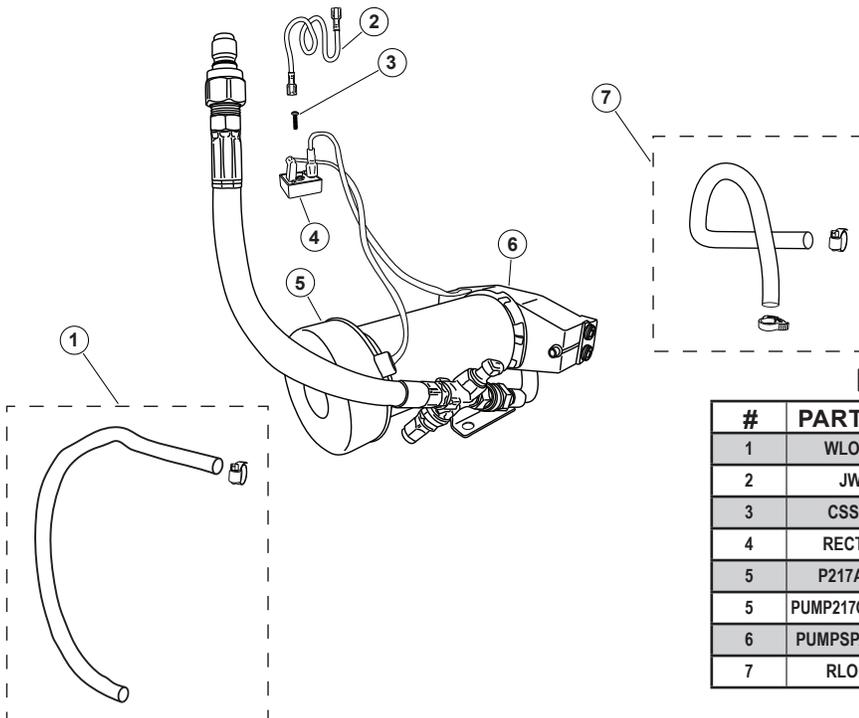
[P/N: OSU50, OSU50CAN, OSU50240VAUS, OSU50240VEU, OSU50240VUK, OSU50240VI]



#	PART NO.	PART DESCRIPTION
1	PH45	45 FT 500 PSI PRESSURE HOSE
2	SUBGAKW	SPRAY GUN
3	MTIPSNEW	METERING TIPS PACK
4	CPS12JQC	CHEMICAL INJECTOR
5	PC1	POWER CORD WITH S. RELIEF 120V
5	CES20EU	50 FT RCD CORD W/FREE WIRE END
5	CES20UK	50 FT RCD CORD W/FREE WIRE END
5	CES20AUS	50 FT RCD CORD W/FREE WIRE END
5	PTEU	EU PIGTAIL PLUG W/ TWIST LOCK RECEPTACLE
6	5ACBS	250V RATED 5A BREAKER SWITCH
7	HMETER	HOUR METER FOR PUMP
8	CSS314	ELEC RECEPTACLE W/COVER 120V
8	CSS314EU	ELEC RECEPTACLE W/COVER EU

8	CSS314UK	ELEC RECEPTACLE W/COVER UK
8	CSS314AU	ELEC RECEPTACLE W/COVER AUS
9	PUMPBOXT	OMNIFLEX PUMP-BOX TOP
10	CSS322	10 X 3/4 PHI PAN HI-LO
11	STRAIN	STRAIN RELIEF
12	CSS321	1/4-20 X 3/4IN HEX FLANGE BOLT SS
13	CSS206	NYLON SCREW FOR RECTIFIER
14	KF017	PUMP MOUNTING INSERT 1/4IN
15	PUMPBOXB	OMNIFLEX PUMP-BOX BOTTOM
16	CPS90	WATER LINE END BRASS BARB
17	MFILT	WATER LINE FILTER
18	CSS322	10 X 3/4 PHL HI-LO
19	GFCI25	25 FT 14 GA GFCI CORD 125V

5.6 500 PSI PUMP ASSEMBLY PARTS DIAGRAM



[P/N: PA2170-2 OR PA0240V-2]

#	PART NO.	PART DESCRIPTION
1	WLOMNI	WATER LINE & CLAMP
2	JWB	CONNECTOR JUMPER WIRE
3	CSS206	RECTIFIER MOUNTING SCREW
4	RECT217	500 PSI RECTIFIER
5	P217AM-O	500 PSI MOTOR REPLACE-RECTIFIER & BRKT INCLUDED
5	PUMP217O240VDC	500 PUMP REPLACEMENT 240V
6	PUMPSPARE217	PUMP HEAD ONLY REPLACEMENT
7	RLOMNI	RETURN LINE & CLAMP

