



Diamapro®
SYSTEMS

OWNER'S MANUAL

SVX2+A

INDUSTRIAL VACUUM



USER & MAINTENANCE BOOK

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE



WARRANTY REGISTRATION CARD

Form must be completed and submitted within 30 days from the date of purchase.

Customer Information

First and Last Name

Company Name

Address

City

State

Zip Code

Phone Number

Email

Machine Information

Machine Type

Machine Model

Serial #

Purchase Date (dd/mm/yy)

Diamapro Systems®
3343 Peachtree Road NE
Suite 145 #24
Atlanta, GA 30326

470-977-2323 ■ www.diamaprosystems.com ■ info@diamaprosystems.com

1. INTRODUCTION

Thank you for purchasing a DIAMAPRO® SYSTEMS product. This manual provides information and procedures to safely operate and maintain the DiamaPro® SVX2+A. For your own safety and protection from injury, carefully read, understand, and observe the safety instructions described in this manual. Keep this manual or a copy of it with the machine. If you lose this manual or need an additional copy, please contact DiamaPro® Systems.

This machine is designed and built with user safety in mind; however, it can present hazards if improperly operated and serviced.

Please follow the operating instructions carefully. If there are any questions regarding operating or servicing of this machine, please contact DiamaPro® Systems.

Disclaimer: DiamaPro® Systems and its affiliates take no responsibility for any damage, injury or death resulting from the incorrect or unsafe use of this product. Use of this product should be undertaken by competent persons only. It is the operator's responsibility to ensure that the following safety procedures are followed. If you are unsure, do not operate this product.



IT IS NECESSARY THAT THE AUTHORIZED PERSONNEL AND MACHINE OPERATOR HAVE READ AND UNDERSTOOD THE MANUAL BEFORE USING THE MACHINE.

2. WARRANTY

DiamaPro® SVX model vacuums are warranted to be free from manufacturing defects in normal service for a period of one or two years from the date of purchase by the original consumer purchaser. Component manufacturers offer separate warranty periods. Call 470-977-2323 for complete information.

DiamaPro® System's obligation under this warranty is expressly limited to the replacement of such part or parts as inspection shall disclose to have been defective.

This warranty does not apply to defects caused by damage, unreasonable use, faulty repairs made by others or defects caused by failure to provide reasonable maintenance.

Further, the warranty is void if the product, or any of its components, is altered or modified by the consumer or if the product is used in an inappropriate manner or with equipment not recommended by the manufacturer.

Wear items are not covered under warranty: examples include: belts, wheels, casters, bearings, cart wheels, filters, wear pads, spark plugs, hoses, wands and squeegees, motors, etc.

To qualify for warranty coverage, DiamaPro® SVX vacuums must be registered within 30 days of purchase. Registration can be completed online at www.DiamaProSystems.com.

To request your warranty service you **MUST** send a written request to:

*DiamaPro® Systems
P.O. Box 19946
Charlotte, NC, 28219*

including the manufacturing details that can be found on a plate fitted inside your machine together with a copy of the invoice.

The warranty is invalid under the following conditions:

- Improper use of the machine or total or partial failure to comply with the contents of this manual
- Any part of the vacuum cleaner is altered or modified in any way
- Incorrect electrical installation
- If the laws in the country of use are not respected
- Inadequate maintenance
- The machine has not undergone routine maintenance as specified in this manual
- Use of spare parts that are not produced by DiamaPro® or not specifically indicated for the model in use
- Partial or total failure to comply with the instructions given in this manual

3. UNINTENDED USE

- Do not use the machine for sucking up liquid material
- Do not use the machine or expose the machine to water, rain, or rain-like environments
- Do not use the machine with improper extension cords or extension cords of improper length

4. MACHINE DATA

4.1 TECHNICAL DATA PLATE

Every DiamaPro machine carries a registration plate showing essential details that are necessary when contacting the supplier/manufacturer for advice, suggestions or information on spare parts. The following details are included on the plate:

- Manufacturer
- Model
- Supply voltage
- Installed rated power
- CE symbol (built in compliance with Machinery Directive 2006/42/EEC)

4.2 SAFETY DEVICE

The vacuum cleaner has been manufactured in compliance with all legal standards for the operator's safety.

- All metal components are grounded to eliminate shock or electrostatic discharge, including the flexible suction hose that is properly grounded. Also in this regard the choice of a suitable flexible suction hose allows to eliminate this risk on the hose length that goes from the use area to the vacuum cleaner.
- The brakes fitted onto the anterior pivoting casters safely fix the machine in its place of use where there may be a risk of movement due to uneven floor surfaces or other particular working conditions.



BEFORE USING THE MACHINE CHECK THAT THE MACHINE HAS NOT SUFFERED ANY SHOCKS OR DAMAGES DURING THE TRANSPORT THAT CAN AFFECT THE OPERATION OF THE ABOVE DEVICES

5. PERFORMANCE TOLERANCES

The performance of the machine may vary based upon environmental factors such as temperature, air pressure, humidity, etc.

CALIFORNIA PROP 65 WARNING

Thank you for purchasing a DIAMAPRO® SYSTEMS product. This manual provides information and procedures to safely operate and maintain the DiamoPro® SVX2+A. For your own safety and protection from injury, carefully read, understand, and observe the safety instructions described in this manual. Keep this manual or a copy of it with the machine. If you lose this manual or need an additional copy, please contact DiamoPro® Systems. This machine is designed and built with user safety in mind; however, it can present hazards if improperly operated and serviced. Please follow the operating instructions carefully. If there are any questions regarding operating or servicing of this machine, please contact DiamoPro® Systems.



THIS PRODUCT CONTAINS LEAD, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.



THIS PRODUCT CONTAINS ONE OR MORE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.



EXHAUST GASES FROM THIS PRODUCT CONTAIN CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

DUST WARNING

Cutting, especially when DRY cutting, generates dust that comes from the material being cut, which frequently contains silica.

When dry cutting, be sure to use a HEPA filtered dust collector.

Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Exposure to excessive amount of such dust can cause:

- Respiratory diseases (affecting your ability to breath), including chronic bronchitis, silicosis and pulmonary fibrosis from exposure to silica. These diseases may be fatal;
- Skin irritation and rash; and
- Cancer according to NTP* and IARC*

*National Toxicology Program, International Agency for Research on Cancer

Take precautionary steps

- Avoid inhalation of and skin contact with dust, mist and fumes;
- Wet cut when feasible, to minimize dust;
- Wear and ensure that all bystanders wear appropriate respiratory protection such as dust masks designed to filter out microscopic particles. (See OSHA 29 CFR Part 1910.1200)

CALIFORNIA PROP 65 WARNING

Use of this product can cause exposure to materials known to the State of California to cause cancer and/or birth defects or other reproductive harm.

6. SAFETY PROVISIONS

- Carefully read the instructions in this manual before starting, using, servicing or operating the vacuum cleaner
- Check that the vacuum cleaner hasn't been damaged in any way
- Never turn on the machine if it is faulty or if you suspect it is faulty
- Check that the switch isn't worn or damaged
- Do not approach the suction intake of the machine with unfastened or broken garments that could easily be sucked into the machine
- Check that the filters are present and efficient
- Make sure that the filters are installed correctly and in full working order, always observing the regulations in force in the workplace
- Do not carry out repairs without the manufacturer's authorization
- Never use gasoline, solvents or other flammable liquids for cleaning; only proper detergents should be used for cleaning
- Never move the machine by pulling the power cable or flexible hose
- Never direct the opening of the machine or the flexible tube towards people or animals
- Protect the machine from the rain
- Check that the machine is connected to a power source with the correct voltage indicated on the registration plate
- Make sure that the power cable has no wear or damage. If replacing the cable, always replace it with another of the same specifications as the original one: cables that are not approved or of inferior quality may overheat and cause serious injury to the user
- Make sure that the machine is connected to an appropriate power source in full working order (check the presence of a fully functional grounding socket)
- Repairs must only be carried out by authorized personnel and only when the machine is turned off and disconnected from the power source
- Never allow unauthorized personnel to use the machine
- Make sure that all safety devices are in full working order before turning on the machine
- Never cover the vacuum cleaner during use

7. INSTALLATION

7.1 DELIVERY AND HANDLING

All machines are carefully tested and checked by DiamoPro before delivery. The machine is transported inside a protective box or wrapped in a protective film that allows the courier to see the item during transport and is securely fixed to a pallet. If any part of the machine is not intact or has been damaged during transport, file an immediate complaint with the courier. Parts that have been damaged or broken due to incorrect transport or handling of the machine will not be recognized by the manufacturer's warranty. The machine must be lifted and moved using a forklift truck in accordance with the relevant safety regulations in force in the workplace

7.2 CHECK THE PROPER ELECTRICAL CONNECTION

Connect the industrial plug to the power cable and connect the plug to a socket that has the same amp rating and is protected by a line-isolating switch.

8. PERIODICAL MAINTENANCE

Maintenance and cleaning operations must ALWAYS be carried out when the vacuum is turned off and disconnected from the power source. No particular measures must be taken for the maintenance, cleaning or lubrication of the suction unit. However, it is important to remember that correct use and servicing are essential if the safety and efficiency of the vacuum are to be guaranteed.

To ensure regular and constant operation and to prevent the warranty from becoming void, always use genuine DiamoPro spare parts when repairs are needed.

8.1 BEFORE TURNING ON AND TURNING OFF EVERY DAY

- Visually check that the suction hose has not been damaged in any way (it must not be damaged, torn, crushed)
- Check that the electrical switches are in full working order and are not damaged in any way
- Check the level of waste inside the main barrel N.B. Empty the main barrel if you are using an DiamoPro model empty the main barrel
- Check that the suction hose has not been damaged in any way
- Check that the motor head is correctly positioned on the filter chamber and that the latter is correctly placed on the main barrel
- If the vacuum cleaner is moved, ensure that the power voltage of the play in this new location corresponds to the one on the technical data plate

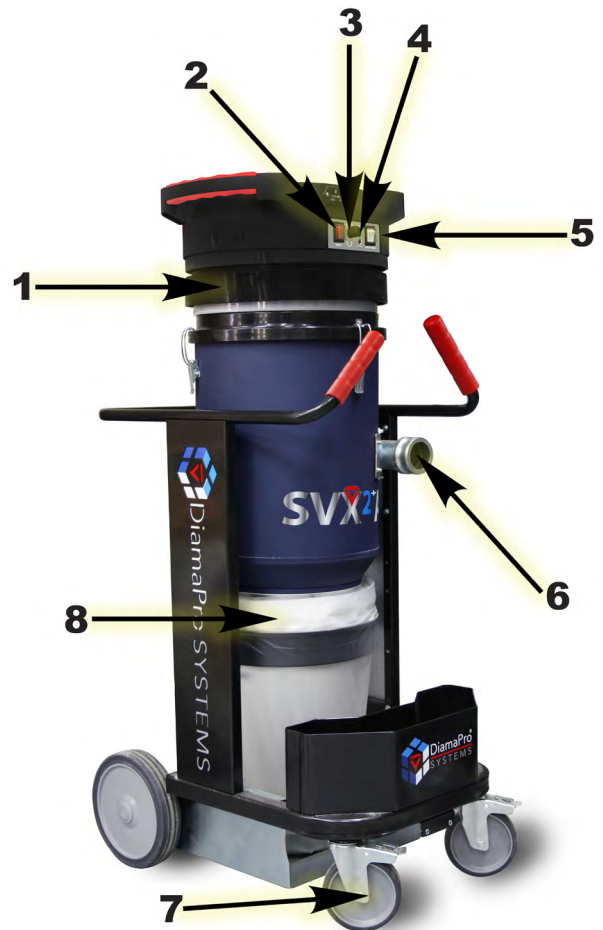
8.2 AT EVERY 50 HOURS OF OPERATION

- Check the condition of the primary filter: it must not have tears, holes or other damage: in this case replace it (see 14.)
- Check that the technical data plate is legible and not damaged in any way: contact the manufacturer for a replacement if necessary

9. PRODUCT DISPOSAL

Dispose of the machine and any accessories according to the legislation of the state/country. To avoid affecting the environment or your health or the health of others it is recommended to separate the machine from other waste, and if necessary properly recycle it.

10. DESCRIPTION

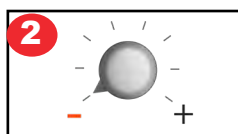
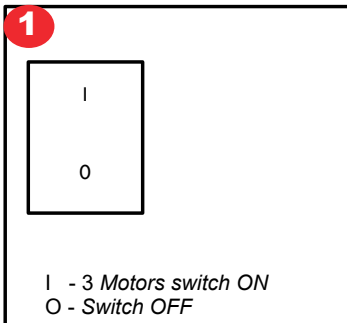


1. SUCTION UNIT
2. ON-OFF SWITCH
3. AUTO FILTER PURGE FREQUENCY DIAL
4. CHECK FILTER INDICATOR LIGHT
5. FORCED FILTER PURGE BUTTON
6. ACCESSORIES CONNECTION
7. WHEELS WITH BRAKE
8. INFINITY BAG

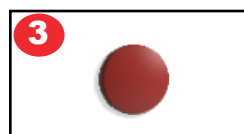
12. USING THE VACUUM CLEANER



Before switching ON the vacuum be sure the container is empty

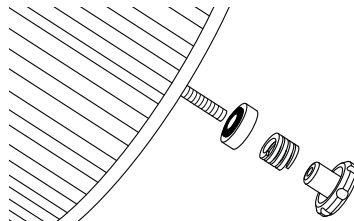
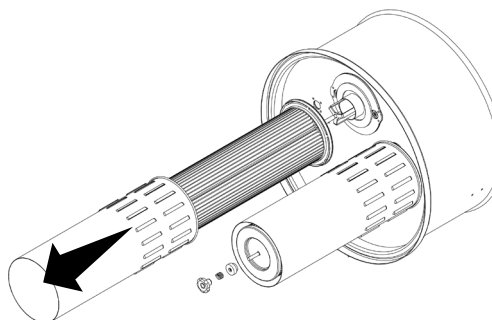


Adjust Dial for Filter Purge Interval



Check Filter Indicator Light

13. FILTER REPLACEMENT



1. Disconnect and lift the head.
2. Remove the filter's cylindrical steel protection (unscrewing the screws on the edge)
3. Unscrew the wing nut and remove the spring and washer
4. Replace the filter with a proper one for the vacuum cleaner in use
5. Install the new filter according to the label on the bottom of the filter
 - Washer with rubber part facing the base of the filter
 - Spring
 - Plastic wing nut
6. Mount the cylindrical protection, then reconnect the head on the filtering chamber

14. MOUNTING OF PARTS



Connect one end of the flexible hose to desired accessory and the other with the camlock mounted on the filter chamber. (Sew accessories pg.)

15. COLLECTION BAG USE

The dust and the particles are collected in a bag placed in the container under the hopper.

The Infinity Bag system consists in a plastic tubular from which are obtained 20/30 bags of different weights and dimensions. Once finished or damaged, the tubular must be replaced by a new refill. The operations below described must be carried out when machine is turned off.



1 - Close the bag with two distanced bands.



2 - Cut the strip between the two bands.



3 - Pull the Infinity Bag end to make a new bag.

16. BAG REPLACEMENT



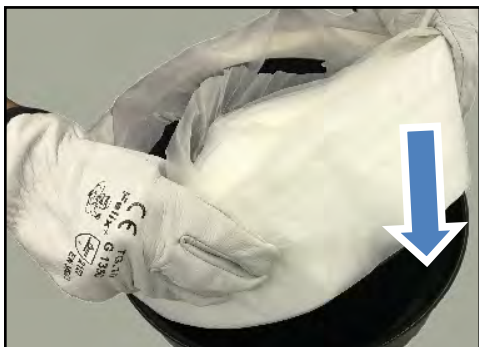
1- Cut the Infinity Bag in order to let it open.



2- Pull and rotate the retaining pins of the Infinity bag container in order to unfasten them.



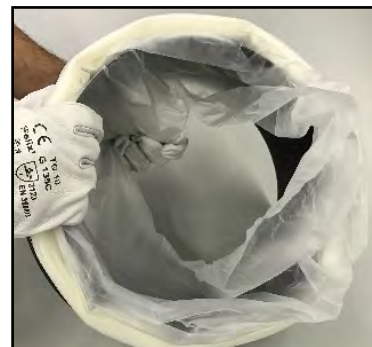
3- Remove the Infinity Bag container and any waste.



4- Insert the new Infinity Bag with the inner part facing upwards.



5- Cut and remove the Infinity Bag closing bands.



6- Keep the inner part of the bag inside the container and pull it up to the lower edge.



7- Pull the outer part of the bag to create a new one.



8- Insert the container with the Infinity Bag.



9- Pull and rotate the retaining pins and insert them into their seats.



10- Pull the bag and place at the edge the band to create a new one. If necessary use two bands.

17. TROUBLESHOOTING

To help solve any problem that may occur

Motors do not start.

- ▶ No electrical voltage.
- ▶ Check cables, plugs and socket.

Suction capacity decreases slowly.

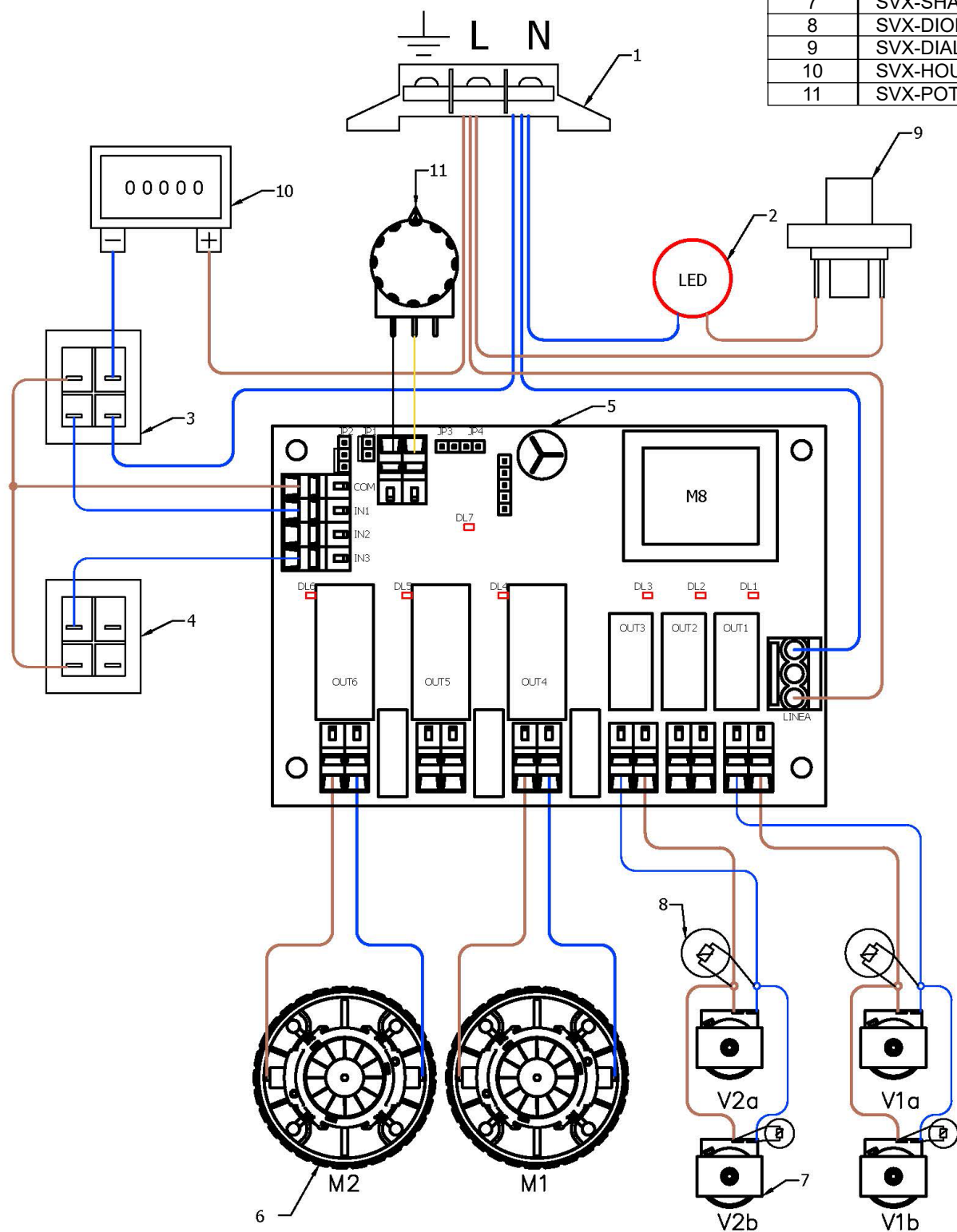
- ▶ Filter, nozzle, suction hose or suction pipe may be blocked.
- ▶ Check, clean accessories. Clean filter.

Dust comes out during the vacuuming.

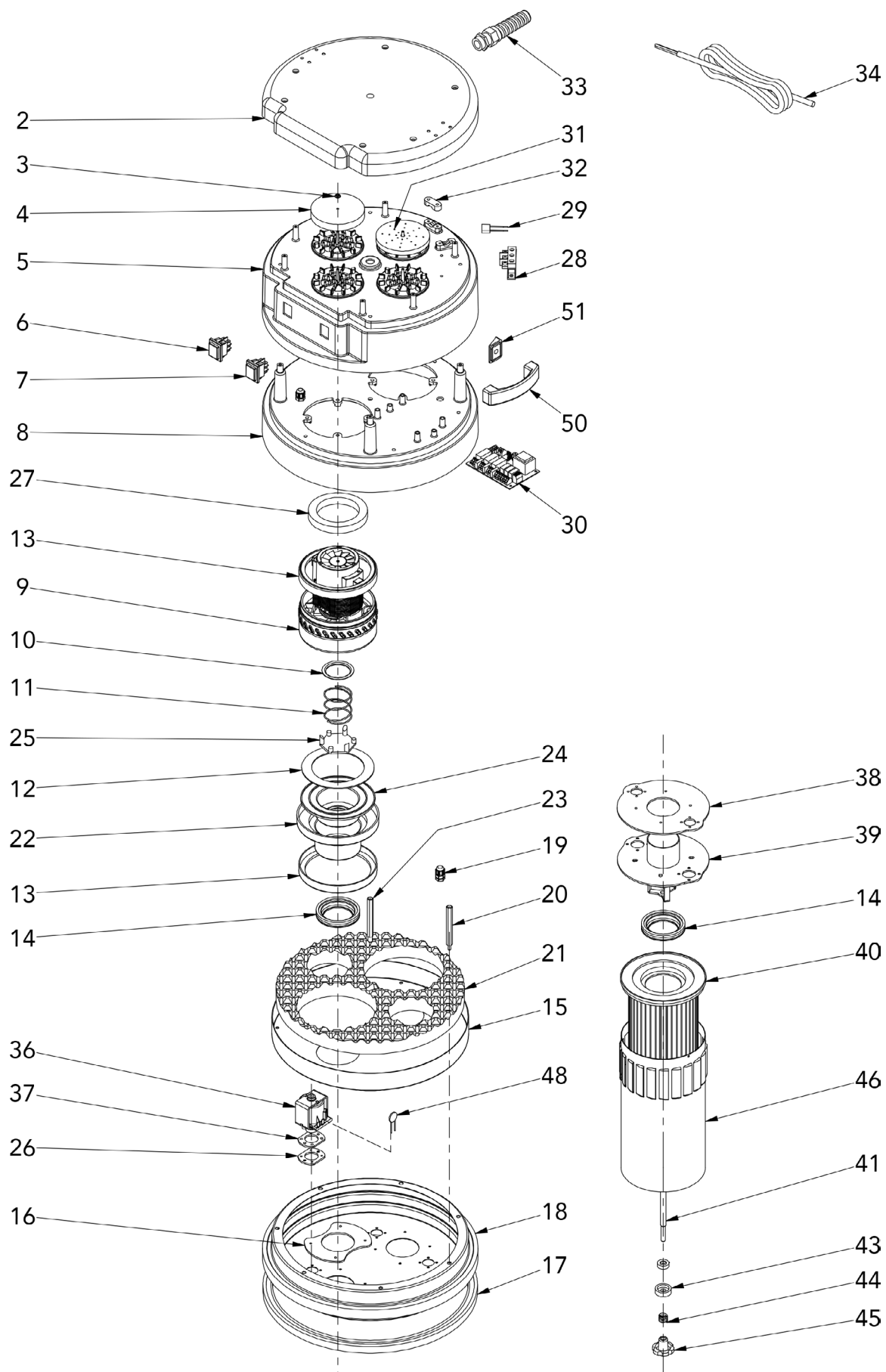
- ▶ Filter has not been fastened correctly or is defective.
- ▶ Check to see if filter is sitting properly; replace if required.

17. ELECTRIC DIAGRAM

No.	Part No.
1	SVX-TERMINAL
2	SVX-LED+
3	SVX-SWITCH ON/OFF
4	SVX-SWITCH-PURGE
5	SVX-BOARD+
6	SVX-MOTOR
7	SVX-SHAKER
8	SVX-DIODE
9	SVX-DIAL+
10	SVX-HOURLMETER+
11	SVX-POTENTIOMETER+



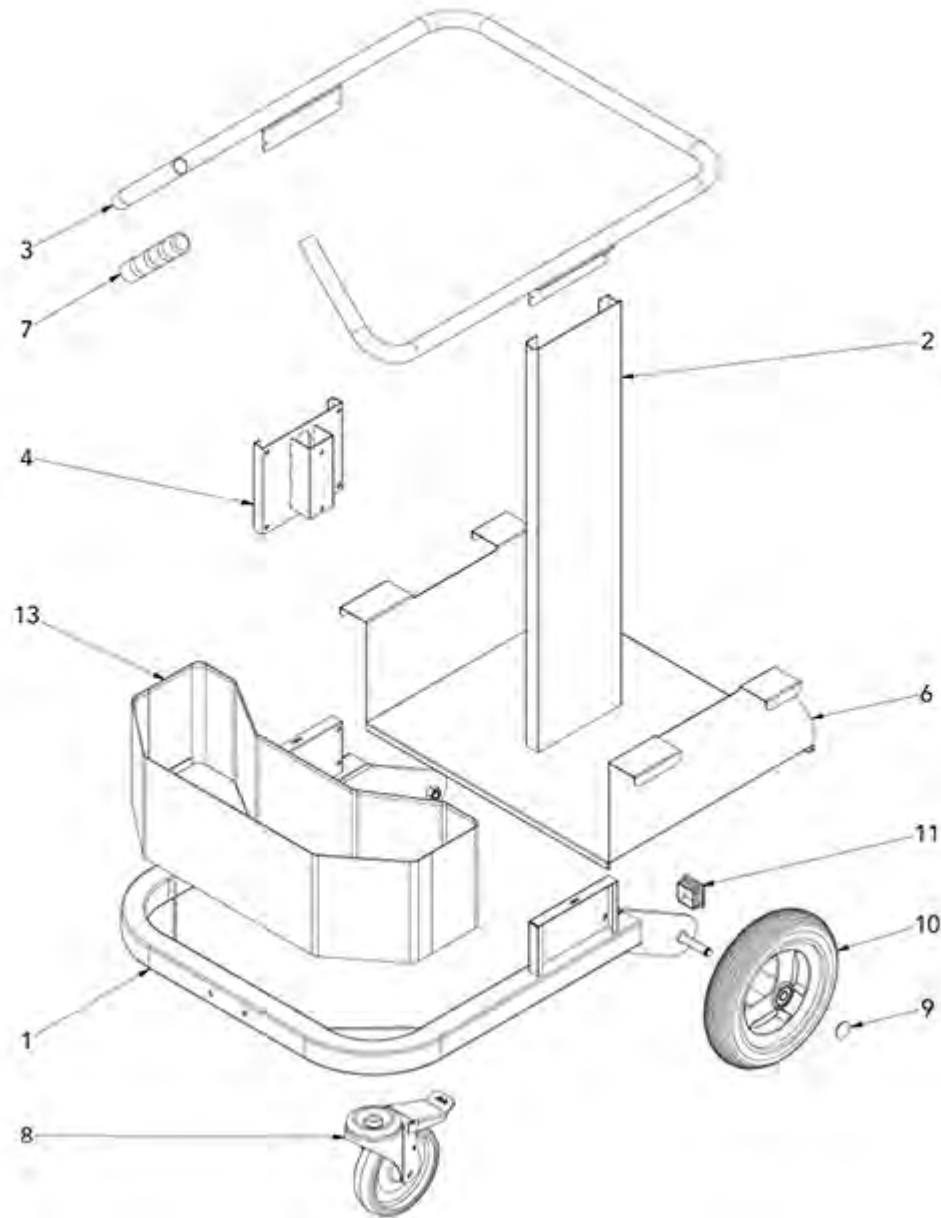
18. TOP ASSEMBLY



19. TOP ASSEMBLY

No.	Part No.	Description	Qty.
2	SVX-UHC2A	TOP COVER FOR SVX2A	1
3	SVX-SEGER-2A	SEGER FOR EXTERNAL SHAFT FOR SVX2A	2
4	SVX-COOLINGCAP	COOLING BY PASS OPENING CAP FOR SVX2A	2
5	SVX-HC2A	MIDDLE COVER FOR SVX2A	1
6	SVX-SWITCH-ON/OFF	16 AMP SWITCH WITH CUFFS (1 FOR AUTOMATIC UNIT / 2 FOR SVX2M / 3 FOR SVX3M)	1
7	SVX-SWITCH-PURGE	PUSH BUTTON SWITCH WITH CUFF (FOR SVX3A & SVX2A, 1 PER UNIT)	1
8	SVX-MR2A	MOTOR RETAINER 2 MOTOR MODELS	1
9	SVX-MOTOR-110V	MOTOR	2
10	SVX-RINGFITTING-A	RING FITTING (AUTOMATIC MODELS ONLY)	2
11	SVX-VAL-SPRING	VALVE SPRING	2
12	SVX-FIL-PROTECTION	FILTER PROTECTION 150 H 285	2
13	SVX-GASKET	GASKET L	4
14	SVX-CABLE-BUSHING	CABLE BUSHING 60	4
15	SVX-MOTORSUPPORTDISC	MOTOR SUPPORT DISC AND FOAM 2 MOTORS RED	1
16	SVX-SM-FLANGE	SUCTION MANIFOLD FLANGE (AUTOMATIC MODELS ONLY)	2
17	SVX-HEADGASKET-2A	SUCTION HEAD GASKET SVX2A	1
18	SVX-BASECOVER-2A	BASE COVER SVX2A	1
19	SVX-CABLEGLAND-PG7	CABLE GLAND WITH TIGHTENING NUT (AUTOMATIC ONLY)	4
20	SVX-M5X86	SPACER M5X86	6
21	SVX-SPS-2A	SOUND PROOFING SPONGE FOR SVX2A	1
22	SVX-MHOLDER-AUTO	MOTOR HOLDER (AUTOMATIC MODELS)	2
23	SVX-M8X86	CENTRAL SPACER M8X86	1
24	SVX-MVH	MOTOR VALVE HOLDER	2
25	SVX-VM-BY-PASS	VALVE MOTOR BY-PASS	2
26	SVX-WASHER-6HA2	WASHER (AUTOMATIC MODELS ONLY)	4
27	SVX-SPG	SOUND PROOFING GASKET FOR BY PASS MOTORS	4
28	SVX-RTBSK	RED TERMINAL BLOCK SCREW	1
29	SVX-FILMCAPACITOR-A	FILM CAPACITOR (AUTOMATIC MODELS)	1
30	SVX-BOARD-110	PCB 4187-1/110V (FOR SVX3A & SVX2A ONLY, 1 PER UNIT)	1
31	SVX-SPR	SOUND PROOFING RING 60 D.100X10 (FOR AUTOMATIC MODELS ONLY)	2
32	SVX-CABLESTOPPER	CABLE STOPPER ALL MODELS	1
33	SVX-CABLEGLAND-PG16	CABLE GLAND	1
34	SVX-CABLE-3GX6	CABLE	1
36	SVX-SHAKER-120V	SHAKER 120V 60HZ	4
37	SVX-WASHER-6HA1	WASHER (AUTOMATIC MODELS ONLY)	4
38	SVX-SUCT-MANI-GASKET	SUCTION MANIFOLD GASKET	2
39	SVX-SUCT-MANI-CLEAN	SUCTION MANIFOLD	2
40	SVX-2A-HEPA	HEPA FILTER (FOR SVX2A ONLY, 2 PER UNIT)	2
41	SVX-FILTERHOLDERSHAFT-2A	FILTER HOLDER SHAFT FOR SVX2A	2
43	SVX-ZPSRS-A	ZINC PLATED SEALING RING STRUT	2
44	SVX--FIL-PRESS-SPRING	FILTER PRESSURE SPRING	2
45	SVX-KNOB-STOPPER	PLASTIC KNOB FILTER STOPPER	2
46	SVX-FILTERHOUSING-2A	FILTER HOUSING FOR SVX2A	2
48	SVX-S14K250	VARISTOR (AUTOMATIC MODELS ONLY)	2
50	SVX-HANDLE-RED-A	RED HANDLE (AUTOMATIC MODELS ONLY)	2
51	SVX-HFB-A	HANDLE FIXING BRACKET (AUTOMATIC MODELS ONLY)	4

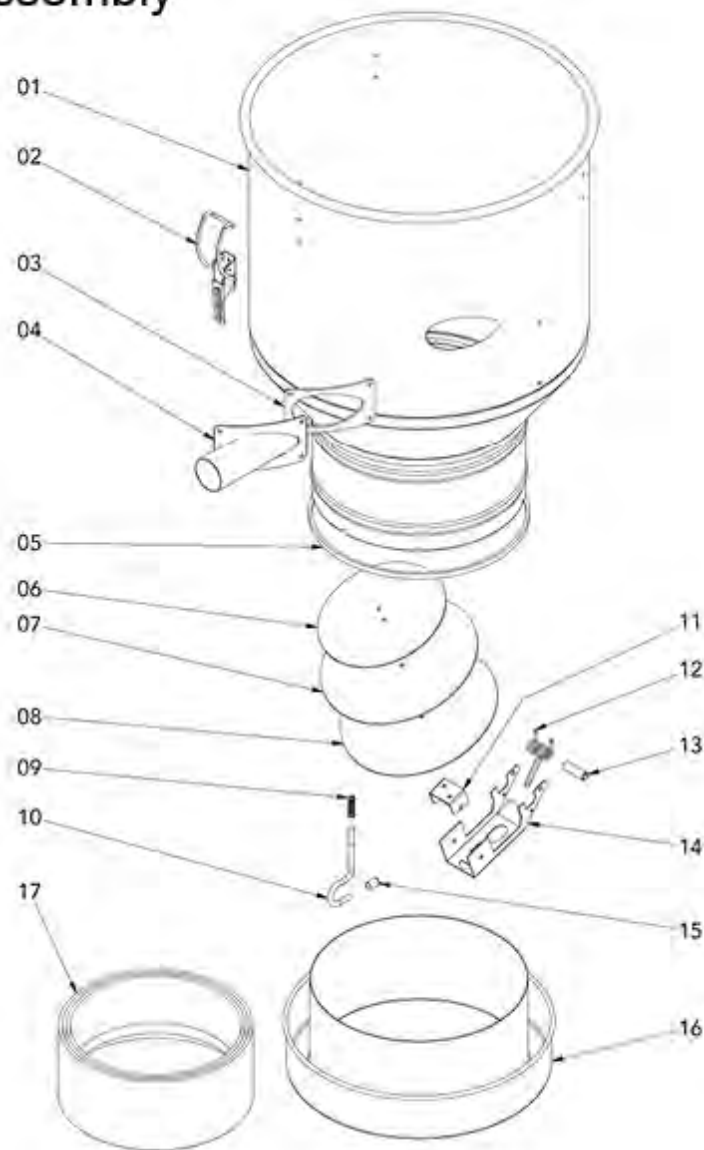
20. FRAME ASSEMBLY



No.	Part No.	Description	Qty.
1	SVX-LF2A	LOWER FRAME (FOR SVX2A)	1
2	SVX-SIDEFAME-A	SIDE FRAME (FOR AUTOMATIC MODELS)	2
3	SVX-MOVING-HANDLES	MOVING HANDLES (FOR SVX2A)	1
4	SVX-SLIDESUPPORT-A	SLIDING CHAMBER SUPPORT (FOR AUTOMATIC MODELS)	2
6	SVX-BASE-2A	INFINITY BAG BASE (FOR SVX2A)	1
7	SVX-FRAMEGRIP-A	RED FRAME HANDLE GRIP (FOR SVX2A)	2
8	SVX-CASTER-A	FRONT CASTER (FOR SVX3A & SVX2A ONLY, 2 PER UNIT)	2
9	SVX-RRING-A	RETAINING RING (FOR AUTOMATIC MODELS ONLY)	2
10	SVX-TIRE	REAR WHEEL (ALL AUTOMATIC MODELS)	2
11	SVX-CAP-40X40	CAP 40x40 (FOR AUTOMATIC MODELS)	2
13	SVX-TROLLEY-2A	TROLLEY (FOR SVX2A)	1

21. HOPPER ASSEMBLY

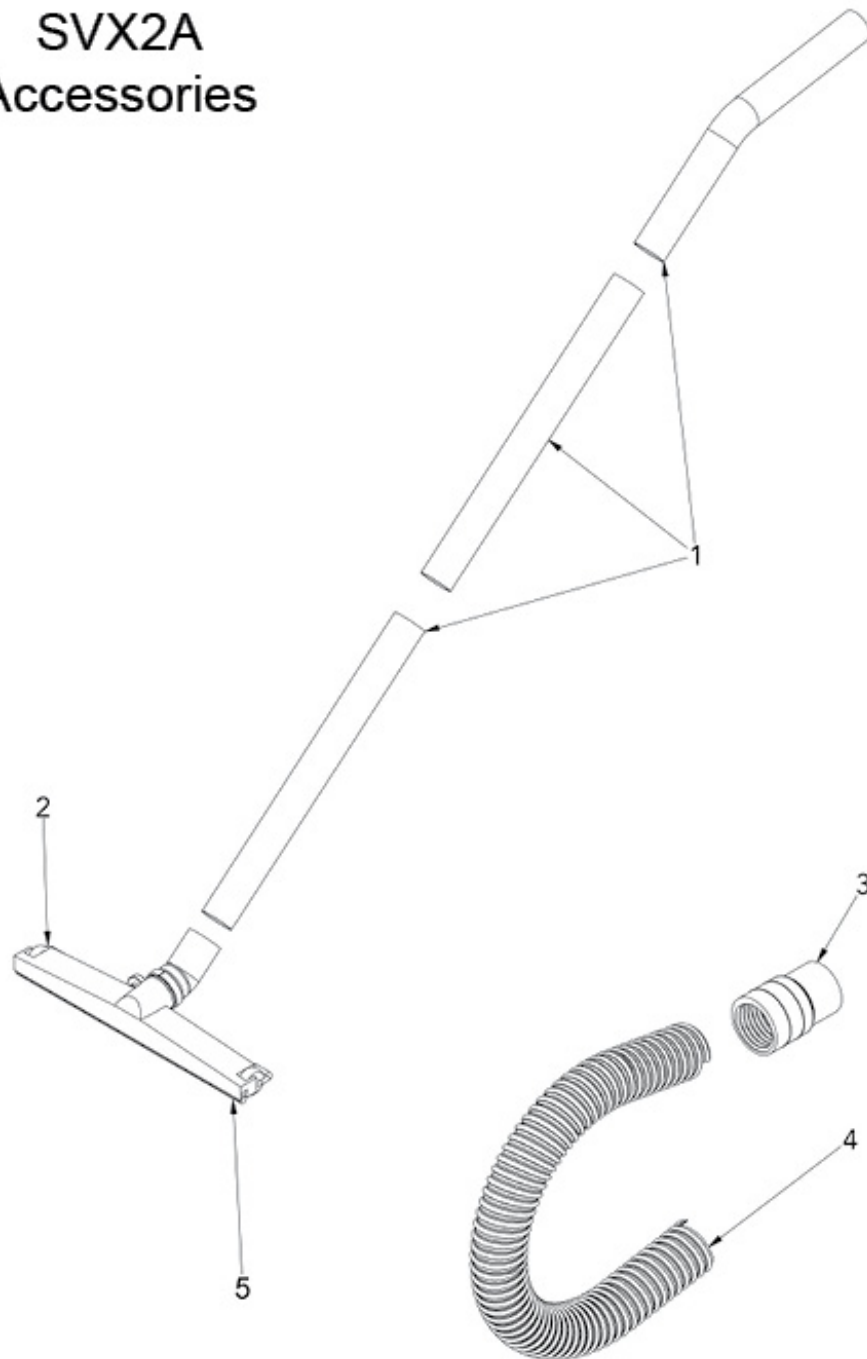
SVX2A Hopper Assembly



No.	Part No.	Description	Qty.
1	SVX-HOPPER-2	HOPPER (FOR SVX2A)	1
2	SVX-HOOK-SMALL	SMALL HOPPER HOOK	3
3	SVX-INLETGASKET	INLET GASKET	1
4	SVX-INLET	INLET	1
5	SVX-HOPPERGASKET-A	HOPPER GASKET (FOR SVXA)	1
6	SVX-UPPERPLATE-FLAP	UPPER PLATE FLAP	1
7	SVX-OVAL-GASKET	OVAL SPONGE RUBBER FLAP GASKET	1
8	SVX-LOWERPLATE-FLAP	LOWER PLATE FLAP	1
9	SVX-LOCKSPRING	INFINITY BAG LOCK SPRING	3
10	SVX-CONTAINERLOCK	INFINITY BAG CONTAINER LOCK	3
11	SVX-CJOINTFLAP	C JOINT FLAP	1
12	SVX-DSRFD	DOUBLE SPRING RETURN FLAP DISK	1
14	SVX-FLAPARM	FLAP ARM	1
16	SVX-IBAGCONTAINER	INFINITY BAG CONTAINER	1
17	I-1376013	DIAMAPRO INFINITY BAG	1

22. ACCESSORIES

SVX2A Accessories



No.	Part No.	Description	Qty.
1	SVX-WAND-2	STEEL WAND FOR FLOOR TOOL	1
2	SVX-FLOORTOOL-2	WET/DRY PLASTIC FLOOR TOOL	1
3	SVX-BLACKHOSE-CUFF	CUFFS FOR 2" BLACK HOSE	2
4	SVX-HOSE-STANDARD-2-NC	2" STANDARD BLACK HOSE	1
5	SVX-SQUEEGEE-BLADES	BLADE SET FOR FLOOR TOOL 15-1/2 X 17-1/4	1



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