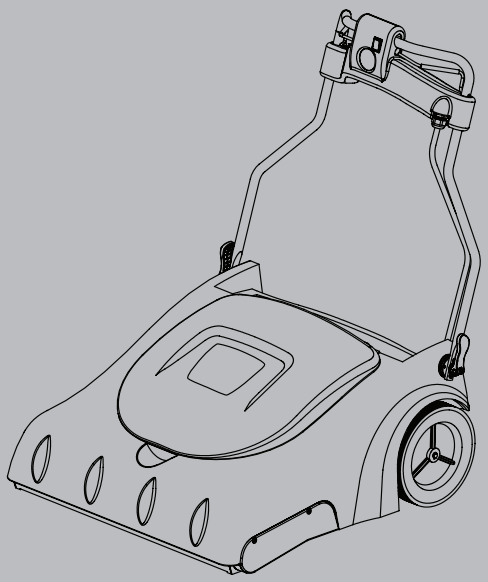
V-WA-76

Wide Area Vacuum Cleaner



Operator and Parts Manual EN



IMPORTANT- Read these Instructions Carefully and Retain for Future Use.

Model Part No.:
1070016 –V-WA-76 (220-240V/50-60 Hz)

www.tennantco.com

9009405
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GENERAL

This manual is furnished with each new wide area vacuum cleaner. It provides necessary operation, maintenance instructions and parts list.

Read this manual completely and understand the machine before operating or servicing it.

When ordering replacement parts use the Parts Lists section in this manual. Before ordering parts or supplies, be sure to have your machine model number and serial number handy. Parts and supplies may be ordered online, by phone, by fax or by mail or from any Tennant or Nobles Authorized Service Center or Distributor.

UNCRATING MACHINE: Carefully check carton for signs of damage. Report damages at once to carrier.



PROTECT THE ENVIRONMENT

Please dispose of packaging materials and old machine components in an environmentally safe way according to local waste disposal regulations.

Always remember to recycle.

Tennant Company
PO Box 1452
Minneapolis, MN 55440 USA
Phone: (800) 553-8033 or (763) 513-2850
www.tennantco.com

Specifications and parts are subject to change without notice.

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CUSTOMER'S RECORD

The model and serial number of this product may be found on the back side of the unit. You should complete the enclosed warranty card and mail it back to us as soon as possible for your protection. Also, note the model and serial number of your unit in the spaces provided below, and retain this book as a permanent record of your purchase.

Model Number: _____

Serial Number: _____

Date Purchased: _____

Your new wide area vacuum cleaner is a product of high quality materials and superior workmanship. We urge you to read these operating instructions carefully before you use this vacuum cleaner, in order to obtain the full performance and satisfaction it can offer you.

IMPORTANT SAFETY INSTRUCTIONS

This machine is intended for commercial use only. It is designed exclusively to pick up dry dirt, debris and dust in an indoor environment and is not constructed for any other use.

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

READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE.

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

1. Use only as described in this manual. Use only manufacturer's recommended attachments.
2. Before you plug in your new machine, make sure the voltage indicated on the rating plate located on the back of the machine is the same as your local supply.
3. Connect to a properly grounded outlet. See Grounding Instructions.
4. Do not operate machine with the use of an extension cord.
5. Do not leave machine unattended when plugged in. Unplug cord from outlet when not in use and before servicing.
6. Do not use with damaged cord or plug. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
7. If machine is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center for repair.
8. 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 machine over cord. Keep cord away from heated surfaces.
9. Do not unplug by pulling on cord.
10. Turn off all controls before unplugging.
11. Do not attempt to service the machine while cord is plugged in.
12. Do not handle plug or machine with wet hands.
13. Do not use outdoors or on wet surfaces. Do not expose to rain/moisture. Store indoors.
14. 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.
15. Keep hair, loose clothing, fingers and all parts of body away from openings and moving parts.
16. Do not pick up anything that is burning or smoking, such as cigarettes, matches or hot ashes.
17. Do not use without vacuum bag and / or filters in place.
18. Do not use or pick up flammable or combustible materials such as gasoline or use in areas where they may be present.
19. Do not use machine in the presence of flammable or combustible liquids, fumes and dusts.
20. Do not pick up any type of fluid, hazardous dust or toxic materials.
21. Do not wheel up or down stairs.
22. Get assistance when lifting machine.
23. Do not allow to be used as a toy. Children should be supervised to ensure that they do not play with the machine.
24. This machine is not intended for use by person (including children) with reduced physical sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the machine by person responsible for their safety.
25. Keep children and unauthorized persons away from the machine when in use.
26. Do not modify machine from original design. Use only manufacturer-supplied or approved replacement parts.

SAVE THESE INSTRUCTIONS

GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for the electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and 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.

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.

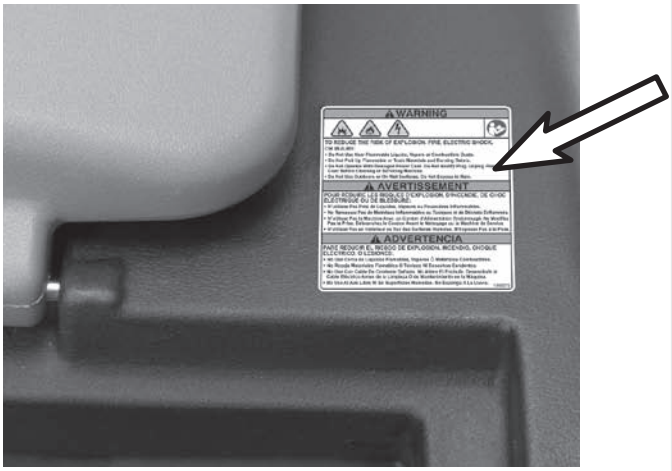
Make sure that the appliance is connected to an outlet
having the same configuration as the plug. No adaptor should be used with this appliance.

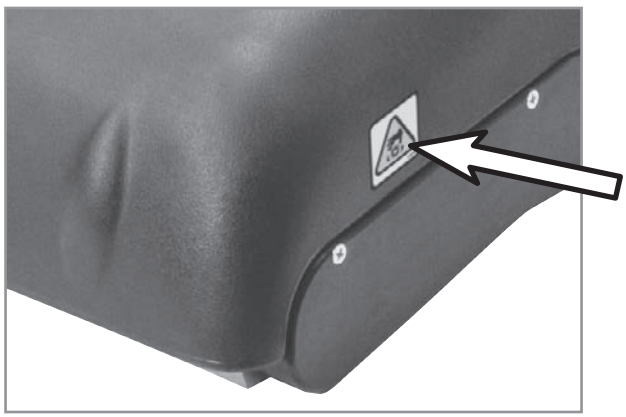
WARNING – the replacement or repair of damaged wiring should only be performed by a qualified electrician or by a Tennant Authorized Service Center or Distributor.

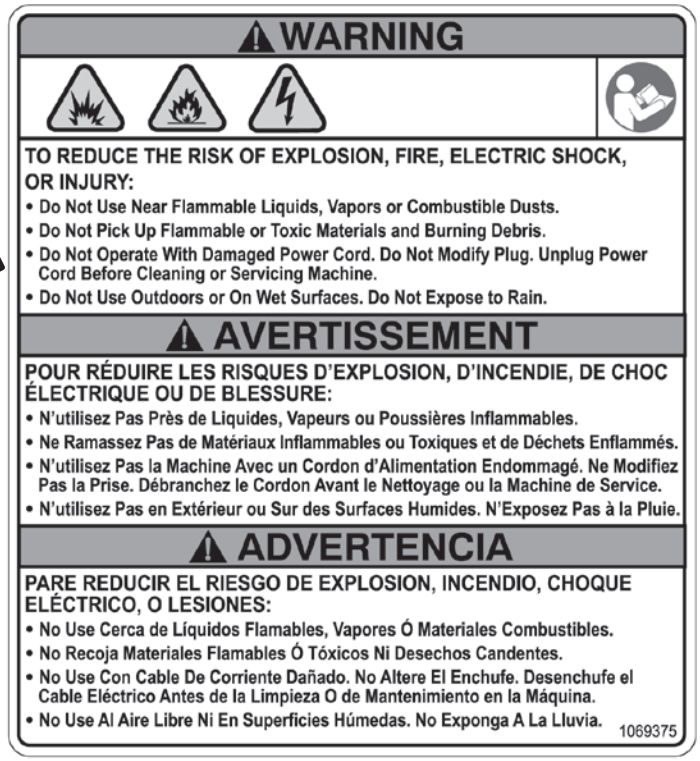
SAFETY LABELS

The safety labels appears on the machine in the locations indicated.

Replace a label if it is missing or becomes damaged or illegible.



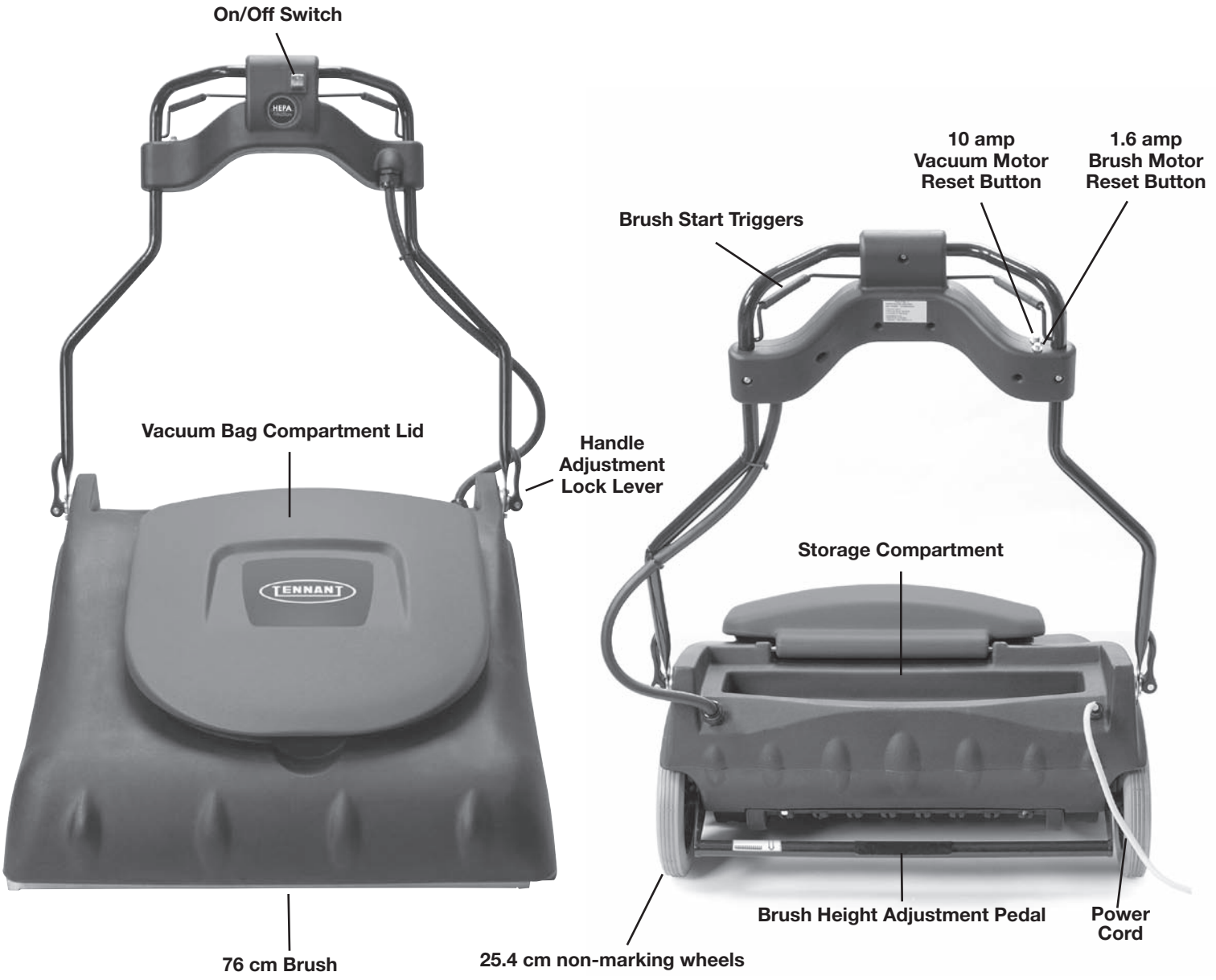






Warning: Spinning Brush. Keep Hands Away. Turn off and unplug the vacuum cleaner before performing maintenance.

PARTS IDENTIFICATION



REPLACEMENT BAGS AND FILTERS

- **Genuine OEM Vacuum Bags**
  Part # 9009003 Vacuum Bag, paper
  10 per package
  Part # 9009004 Cloth Bag
  1 per package
  Part # 9009236 Vacuum Bag, HEPA
  10 per package

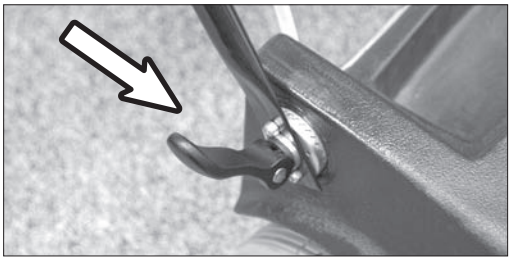
- **Genuine OEM Brush Belt**
  Part # 9009085 1 per package

- **Genuine OEM Vacuum Filters**
  Part # 9009078 1 per package (Exhaust Filters)

MACHINE CARTON CONTENTS NOTE: Each machine is equipped with one extra vacuum bag.

HANDLE ADJUSTMENT

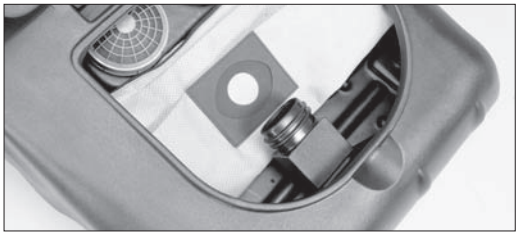
1. Loosen handle adjustment lock lever and adjust handle to comfortable operation height
2. Tighten lever to lock handle in place.

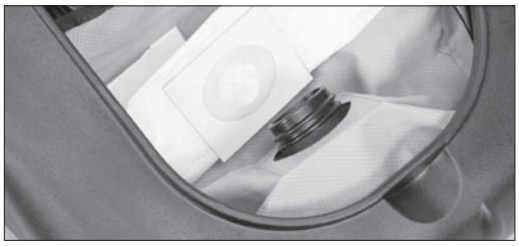


BAG INSTALLATION

1. Position the handle in normal operating position.
2. Open bag compartment lid and rest it on the handle.
3. Unzip cloth bag and install paper bag inside.
4. Attach both bag openings together onto vacuum intake housing.
5. Make sure bag is properly positioned inside machine housing.
6. Completely close zipper on cloth bag and close lid of machine.

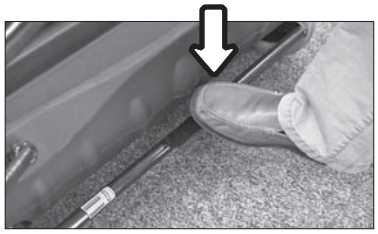
ATTENTION: Always use cloth and paper bags together.

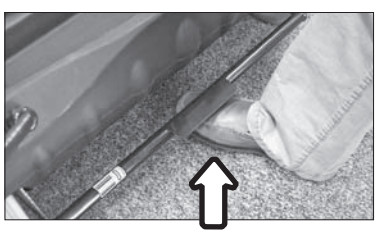




BRUSH HEIGHT ADJUSTMENT

1. This machine has 5 brush adjustment levels.
2. To raise brush height level: lift up height adjustment pedal until desired brush height is attained.
3. To lower brush height level: push down on height adjustment pedal until desired brush height is attained.





OPERATION OF MACHINE

1. Plug power cord into properly grounded power outlet.
2. Push the on/off switch to the ON (I) position.
3. To operate brush squeeze the brush start triggers.
4. Push machine forward to begin cleaning.
5. Adjust brush height for proper pick-up.



CIRCUIT BREAKER PROTECTION



Your new wide area vacuum comes equipped with two manual circuit breakers, a 10 amp breaker for the vacuum motor and a 1.6 amp breaker for the brush motor. If the machine does not turn on you will need to check the circuit breakers.

To reset circuit breakers:

1. Turn off and unplug the vacuum cleaner.
2. Check machine for the following:
   Full bag, obstructions, clogged filters, clogged brush, brush height set too low, etc.
3. Press the affected circuit breaker button to reset.
4. Resume operation

If vacuum cleaner fails to turn on, contact a Tennant Authorized Service Center or Distributor.

FOR BEST PERFORMANCE

- Keep machine and all accessories clean and in good operating condition.
- Change vacuum bags and filters as recommended to maintain optimum cleaning efficiency.
- Always use OEM bags, filters and parts, as use of other products may result in poor cleaning of filtration performance. OEM products are designed for maximum performance.
- Have machine checked periodically by a Tennant Authorized Service Center or Distributor.
- Store machine carefully in a dry area.
- For optimum cleaning performance and safety, follow your owner's manual.
- After each use, carefully wrap power cord around handle and check cord for wear or damage. If cord is damaged, have power cord replaced by a Tennant Authorized Service Center or Distributor immediately.

MACHINE MAINTENANCE

CAUTION: Turn off and unplug the vacuum cleaner before performing maintenance.

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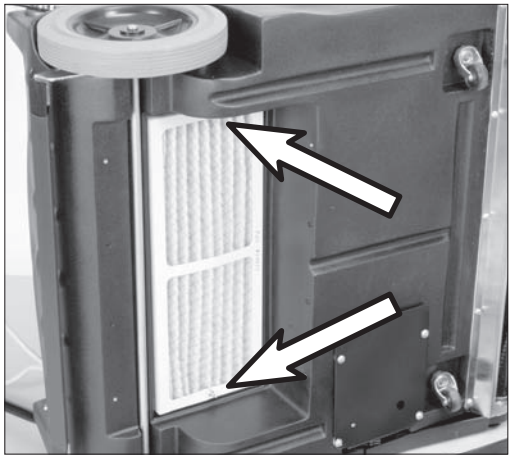
EXHAUST FILTER REPLACEMENT

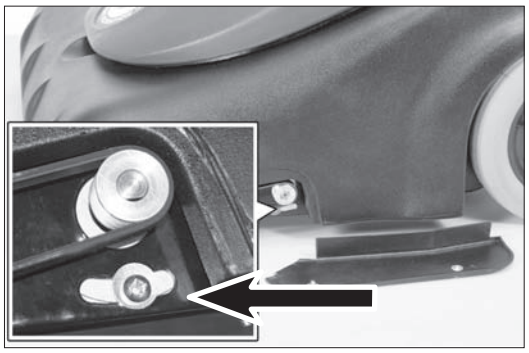
1. Turn off and unplug vacuum cleaner.
2. Carefully turn machine on its side and remove exhaust cover from bottom of machine.
3. Remove the two nuts holding filter onto machine.
4. Replace filter in proper position and tighten nuts.
5. Reinstall exhaust cover.

*Replace exhaust filter every 6 months.

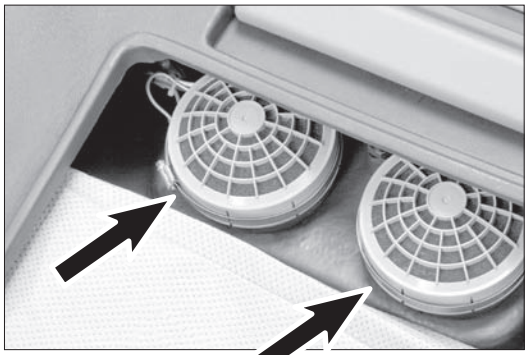


BELT ADJUSTMENT AND REPLACEMENT

1. Turn off and unplug vacuum cleaner.
2. Remove belt cover on left side of machine.
3. Loosen the motor belt adjusting screws on motor bracket.
4. Remove belt.
5. Install new belt and reposition motor to eliminate excess slack.
6. Once proper tension is set, tighten motor adjusting screws.
7. Replace belt cover on side of machine.



VACUUM MOTOR FILTERS



VACUUM MOTOR FILTERS

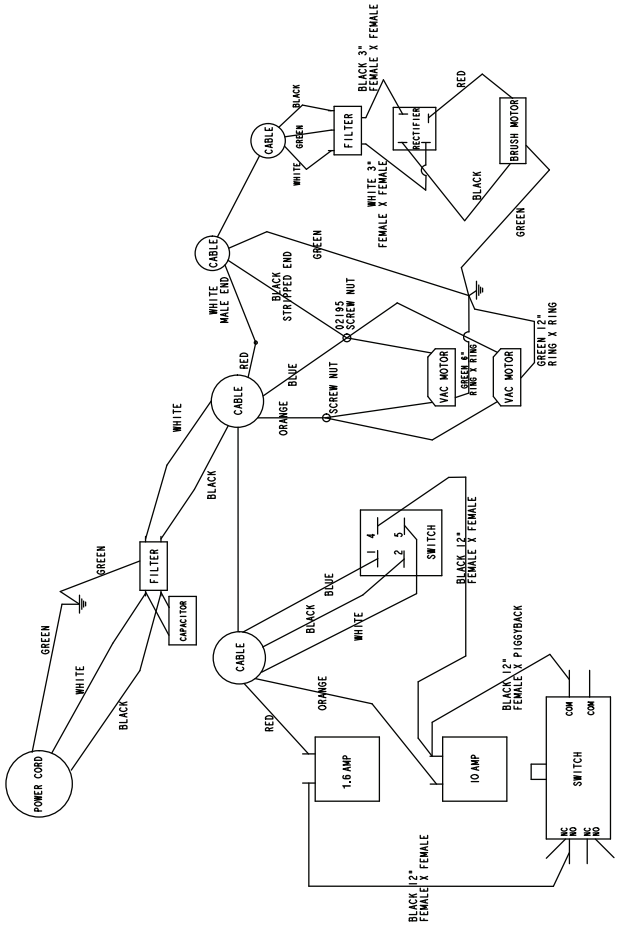
1. Turn off and unplug vacuum cleaner.
2. Position the handle in normal operating position.
3. Open Wide Area Vacuum lid and rest it on the handle.
4. Remove clamp with a screwdriver to gain access to filter
5. Remove plastic cap covering the motor
6. Remove plastic retainer in cap
7. Replace filters in their original positions.
8. Reinstall plastic retainer in cap
9. Reinstall cap onto motors
10. Reinstall clamp.

*Replace the vacuum motor filters every 6 months.

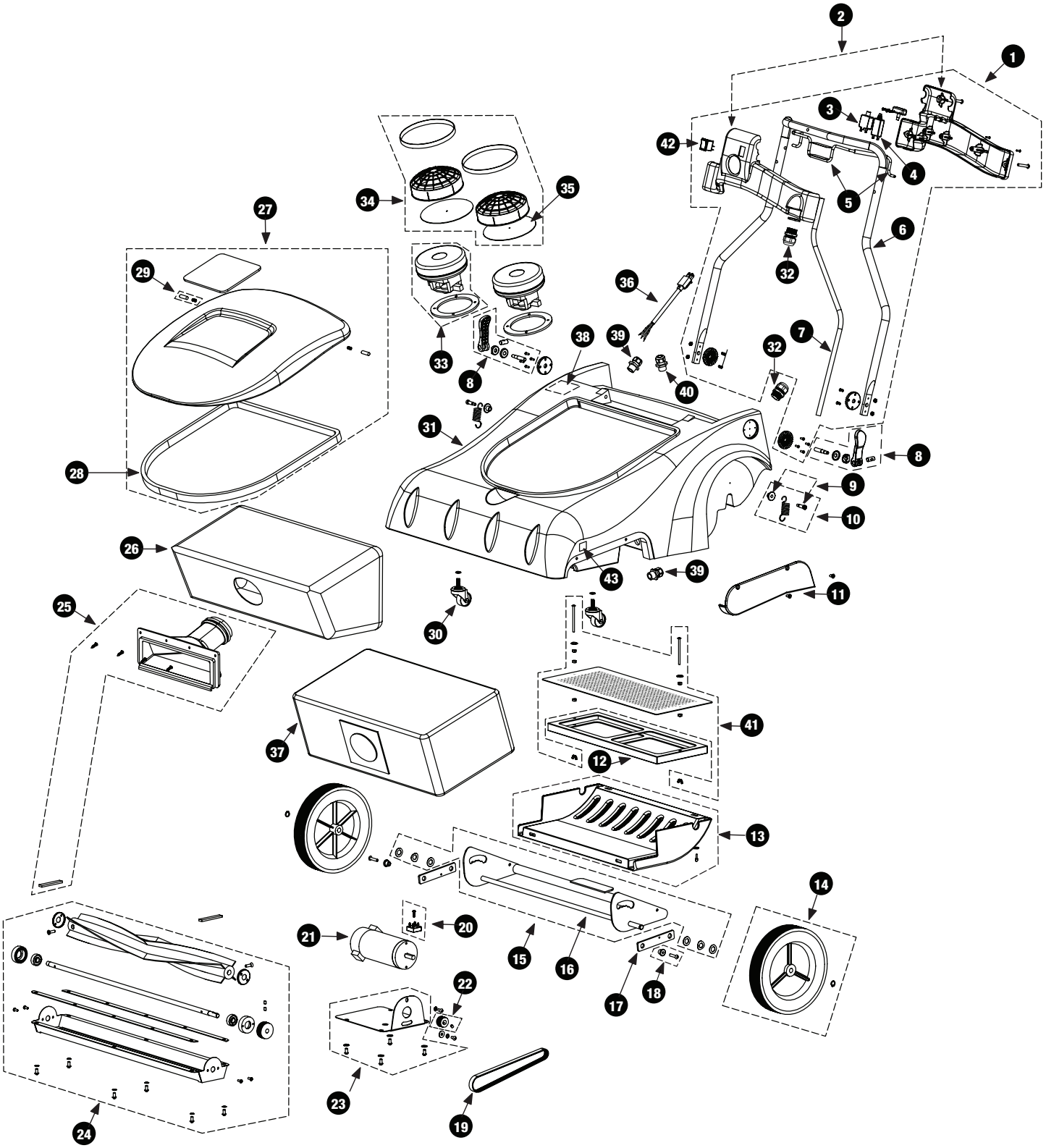
MACHINE SPECIFICATIONS

Model	V-WA-76
Voltage / Frequency	220-240 V / 50-60 Hz
Vacuum motor rating	1976W / 8 A
Brush Motor rating	1/4 hp / 2 A
Total power consumption`	10 A
Bag capacity – dry	43 L
Airflow	384 m^3/h
Vacuum – water lift at sealed orifice	1804 mm
Filtration - HEPA	99.97% @0.3 micron
Vibration at controls	< 2.5 m/s^2
Brush width	762 mm
Cable length	23 m
Weight (including cord)	33.6 kg
Noise level	69.9 dB(A)
Construction class	I
Protection	IP20
Machine dimensions	Folded: 838 mm X 787 mm X 483 mm Operating Position: 838 mm X 787 mm X 991 mm

ELECTRICAL DIAGRAM



V-WA-76 PARTS LIST



V-WA-76 PARTS LIST

Ref#	Item#	Description	Qty
1	9009075	HANDLE, ASSY, FR/	1
2	9009074	COVER, ASSY, FR/ (includes 3-1/4” 20 x 1.5” screws, 4-32 x 3/4 screw)	1
3	9009439	CIRCUITBREAKER, 10A, FR/	1
4	9010846	CIRCUITBREAKER, 01.6A, [AUS V-WA-76]	1
5	9009077	HANDLE, BAIL, W/GRIPS, FR/	1
6	9009076	HANDLE, TUBE, FR/	1
7	9009088	HARNESS, MACH, FR/	1
8	9009054	LEVER, LOCK, HANDLE, FR/ (includes, 2 washers, 2 metal washers, 2 hinge pins, 2 metal studs)	1
9	9009064	PIVOT, SLEEVE, .312" DIA., FR/ (includes 1 ¼”-20-5/16" x 3/4" screw)	1
10	9009071	PIVOT, SLEEVE, ASSY, FR/ (includes 1-1/4”-20-5/16” x 3/4” screw, spring)	1
11	9009070	COVER, BELT, FR/ (includes 2-¼”-20 x 1/2” screws)	1
12	9009078	FILTER, EXHAUST, FR/	1
13	9009060	COVER, EXHAUST, FR/ (includes 4-¼” washers, 4- 32 x 1/2” screws)	1
14	9009053	WHEEL, REAR, FR/ (includes 1 snap ring)	1
15	9009065	AXLE, ASSY, FR/ (includes 2-1/2” snap rings, 2-½” curved spring, 4 .563” washer)	1
16	9009066	PEDAL, FOOT - ADJ., /FR	1
17	9009086	ARM, PIVOT, WHEEL, FR/	1
18	9009063	PIVOT, SLEEVE, .5" DIA., FR/ (includes 1- ¼”-20 x 1.25” screw)	1
19	9009085	BELT, BRUSH, DRIVE-POLY	1
20	9009062	RECTIFIER, 60 AMP, FR/ (includes 1 24 x 5/8” screw)	1
21	9009441	MOTOR, BRUSH, FR/ (includes 2-1/4”-20 x 3/4” screws, 1-1/4” washer)	1
22	9009058	PULLEY, BRUSH DRIVE, FR/ (includes 1-¼”-20 x 5/16” set screw)	1
23	9009059	BRACKET, BRUSH-MOTOR, FR/ (includes 4-1/4’-20 x 1/2’ screws, 4-1/4” washers)	1

Ref#	Item#	Description	Qty
24	9009061	BRUSH, ASSY, FR/ (includes 2 gaskets, 6-1/4”-20 x 1/2” screws)	1
25	9009055	SHROUD, AIR-INTK, FR/ (includes 4-16 x 3/4” screws, 2 3/16 x 1/2 x 14.75 gasket, 1 .25 gasket)	1
26	9009004	BAG, CLOTH, FR/	1
27	9009056	COVER, TOP, W/LABEL, FR/ (includes 2 springs, 2 pins)	1
28	9009090	GASKET, COVER, FR/	1
29	9009057	LATCH-RELEASE, FR/ (includes 1 pin)	1
30	9009081	CASTER, SWIVEL, FR/	1
31	9009069	CHASSIS, MOLD, W/LABELS, FR/	1
32	9009084	STRAINRELIEF, FR/	1
33	9009442	FAN, VACUUM, FR/ (includes 4-16 x 3/4” screws, 1 gasket)	1
34	9009072	FILTER, ASSY, AIR-INTK, FR/	1
35	9009073	FILTER-PRE, ASSY, FR/	1
36	9009443	CORD, POWER, FR/	1
37	9009236 9009003	BAG, HEPA (PKG OF 10), FR/ BAG, PAPER (PKG OF 10), FR/	1
38	1069375	LABEL, WARNING	1
39	9009082	STRAINRELIEF, FR/	1
40	9009260	STRAINRELIEF, 1.00 DIA FR/	1
41	9009259	COVER, VAC, FR/ (includes 2-nut, 2-washer, 5-Nut-Hex, 2-32X3" screws)	1
42	9009258	SWITCH, MAIN, FR/	1
43	578769	LABEL, MOVING PARTS	2
NOT ILLUSTRATED			
	9009083	CABLE, BRUSH MOTOR, FR/	1
	9010847	FILTER, EMC, 230VAC, 20A [AUS V-WA-76]	1
	9010848	FILTER, EMC, 230VAC, 5A [AUS V-WA-76]	1

RECOMMENDED SPARE PARTS

Ref#	Item#	Description
12	9009078	FILTER, EXHAUST, FR/
14	9009053	WHEEL, REAR, FR/ (includes 1 snap ring)
19	9009085	BELT, BRUSH, DRIVE-POLY
21	9009441	MOTOR, BRUSH, FR/ includes 2-1/4”-20 x 3/4” screws, 1-1/4” washer)
24	9009061	BRUSH, ASSY, FR/ (includes 2 gaskets, 6-1/4”-20 x 1/2” screws)
30	9009081	CASTER, SWIVEL, FR/
33	9009442	FAN, VACUUM, FR/ (includes 4-16 x 3/4” screws, 1 gasket)
34	9009072	FILTER, ASSY, AIR-INTK, FR/
35	9009073	FILTER-PRE, ASSY, FR/
36	9009443	CORD, POWER, FR/
37	9009236 9009003	BAG, HEPA (PKG OF 10), FR/ BAG, PAPER (PKG OF 10), FR/

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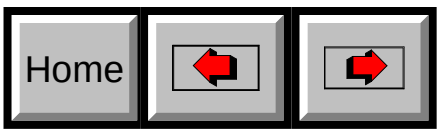
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