

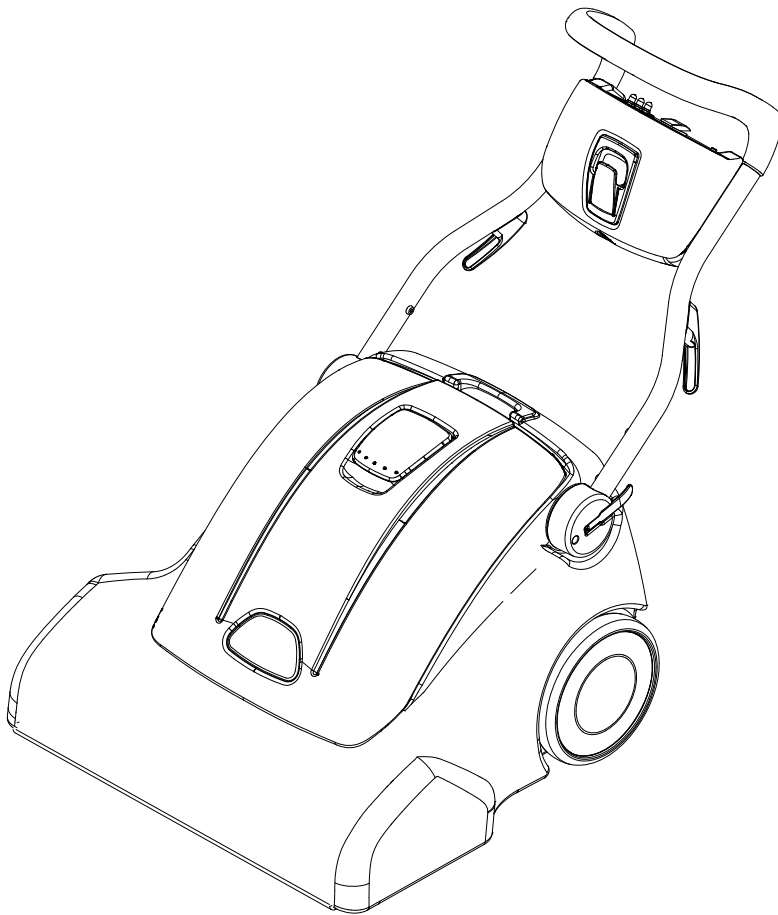
NuWave



Wide Area Vacuum

Operating instructions (ENG)

MODELS: NW
1.012-533.0



From Serial Number (Ref No1*)
*See Serial Number Page
in Spare Parts List
or call manufacturer



Model:	_____
Date of Purchase:	_____
Serial Number:	_____
Dealer:	_____
Address:	_____
Phone Number:	_____
Sales Representative:	_____

Overview

The **NuWave™** is a electric motor powered, wide area vacuum intended for commercial use. The **NuWave™** brushes and vacuums debris from carpeted surfaces and stores the collected debris in vacuum bags.

Warranty Registration

Thank you for purchasing a Kärcher North America product. Warranty registration is quick and easy. Your registration will allow us to serve you better over the lifetime of the product.

To register your product go to :

<http://warranty.karcherna.com/>

For customer assistance:

1-800-444-7654



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How To Use This Manual

This manual contains the following sections:

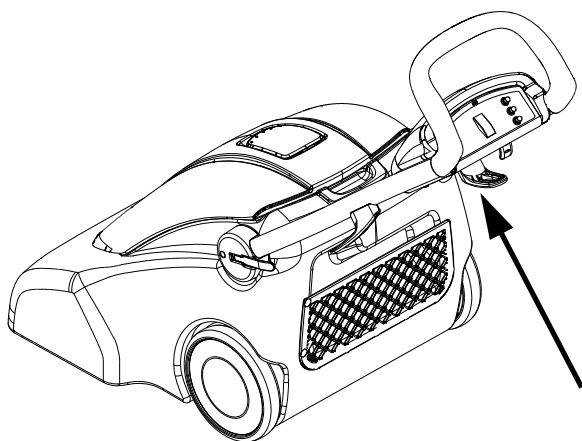
- How to Use This Manual
- Safety
- Operations
- Maintenance
- Suggested Spare Parts

The HOW TO USE THIS MANUAL section will tell you how to find important information for ordering correct repair parts.

Parts may be ordered from authorized dealers. When placing an order for parts, the machine model and machine serial number are important. Refer to the MACHINE DATA box which is filled out during the installation of your machine. The MACHINE DATA box is located on the inside of the front cover of this manual.

Model: _____
Date of Purchase: _____
Serial Number: _____
Dealer: _____
Address: _____
Phone Number: _____
Sales Representative: _____

The model and serial number of your machine is located on the back of the machine.



The SAFETY section contains important information regarding hazardous or unsafe practices of the machine. Levels of hazards are identified that could result in product damage, personal injury, or severe injury resulting in death.

The OPERATIONS section is to familiarize the operator with the operation and function of the machine.

The MAINTENANCE section contains preventive maintenance to keep the machine and its components in good working condition. They are listed in this general order:

- Belt/Brush Motor
- Vac Motor and Filters
- Vac Motor Carbon Brushes
- Daily Maintenance
- Regular/Periodic Maintenance

NOTE: If a service or option kit is installed on your machine, be sure to keep the KIT INSTRUCTIONS which came with the kit. It contains replacement parts numbers needed for ordering future parts.

NOTE: The manual part number is located on the lower right corner of the front cover.

IMPORTANT SAFETY INSTRUCTIONS

**When using this machine, basic precaution
must always be followed, including the following:
READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE.**

WARNING:

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

- Use only indoors. Do not use outdoors or expose to rain. This machine is for dry use only.
- Use only as described in this manual. Use only manufacturer's recommended components and attachments.
- If the machine is not working properly, has been dropped, damaged, left outdoors, or dropped into water, return it to an authorized service center.
- Do not operate the machine with any openings blocked. Keep openings free of debris that may reduce airflow.
- This machine is not suitable for picking up hazardous dust.
- Do not operate this machine near flammable fluids, dust or vapors.
- This machine is suitable for commercial use, for example in hotels, schools, hospitals, factories, shops and offices for more than normal housekeeping purposes.
- Maintenance and repairs must be done by qualified personnel.
- During operation, attention shall be paid to other persons, especially children.
- When the machine is left unattended, ensure that it does not accidentally move.
- The machine shall only be operated by instructed and authorized persons.
- Do not handle the plug or machine with wet hands.
- Do not unplug machine by pulling on cord. To unplug, grasp the plug, not the cord.
- Do not use with damaged cord or plug. Follow all instructions in this manual concerning grounding the machine.
- Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners.
- Do not pull/run machine over cord. Keep cord away from heated surfaces.
- Do not use to pick up flammable or combustible liquids, such as gasoline, or use in areas where the maybe present.
- Do not operate without dust bag and filter in place.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- Connect to a properly grounded outlet. See Grounding Instructions.

READ AND SAVE THESE INSTRUCTIONS

CONSIGNES DE SÉCURITÉ IMPORTANTES

Lors de l'utilisation de cette machine, des précautions de base doivent toujours être prises, y compris les précautions suivantes :
LIRE TOUTES LES INSTRUCTIONS AVANT D'UTILISER CETTE MACHINE.

⚠️ AVERTISSEMENT: Pour réduire le risque d'incendie, d'électrocution ou de blessure :

N'utiliser cette machine qu'en intérieur. Ne jamais l'utiliser à l'extérieur ou dans la pluie.

N'utiliser cette machine que comme décrit dans le présent manuel. N'utiliser que les composants et les accessoires conseillés par le fabricant.

Lorsque la machine ne **fonctionnant pas correctement**, a fait l'objet d'une chute ou d'une détérioration, a été laissée à l'extérieur, est tombée dans l'eau, la retourner au centre de service agréé.

Ne pas opérer la machine lorsque les conduits de ventilation sont bloqués. Débarrasser les débris des conduits, car ils peuvent réduire l'écoulement d'air.

Cette machine **n'est pas** adaptée au ramassage de poussières dangereuses.

Ne pas l'utiliser près de liquides, de poussières ou de vapeurs inflammables.

Cette machine est destinée à un usage commercial. Elle est recommandée davantage pour les domaines hôtelier, scolaire, hospitalier, industriel ou pour les bureaux, les chaînes de magasin, que pour un usage domestique normal.

L'entretien et les réparations de la machine **doivent être effectuées** par un personnel qualifié.

Durant la manoeuvre de la machine, prendre garde aux personnes environnantes et notamment aux enfants.

Lorsque la machine est laissée sans surveillance, s'assurer qu'elle ne se déplace pas de manière accidentelle.

Cette machine ne doit être manoeuvrée que par un personnel expérimenté et qualifié.

Lorsque la machine est laissée sans surveillance, la mettre hors tension ou verrouiller l'interrupteur principal afin d'empêcher un emploi non autorisé.

Ne pas toucher la fiche ou l'appareil lorsque vos mains sont humides.

Ne pas débrancher en tirant sur le cordon. Tirer plutôt la fiche.

Ne pas utiliser si le cordon ou la fiche est endommagé

Ne pas tirer soulever ou traîner l'appareil par le cordon. Ne pas utiliser le cordon comme une poignée, le coincer dans l'embrasure d'une porte ou l'appuyer contre des arêtes vives ou des coins.

Ne pas faire rouler l'appareil sur le cordon. Garder le cordon à l'écart des surfaces chaudes.

Ne pas utiliser pour ramasser des liquides inflammables ou combustibles, tels que l'essence ; ne pas utiliser dans les zones où ceux-ci peuvent être présents.

Ne pas utiliser sans sac à poussière et filtre en place.

Ne pas ramasser quelque chose qui brûle ou fume, comme des cigarettes, des allumettes ou des cendres chaudes.

Cet appareil ne doit être connecté qu'à des prises ayant une sortie de terre. Se reporter aux instructions de mise à la terre.

LIRE ET CONSERVER CES INSTRUCTIONS

The following symbols are used throughout this guide as indicated in their descriptions:

HAZARD INTENSITY LEVEL

There are three levels of hazard intensity identified by signal words -**WARNING** and **CAUTION** and **FOR SAFETY**. The level of hazard intensity is determined by the following definitions:



WARNING - Hazards or unsafe practices which COULD result in severe personal injury or death.



CAUTION - Hazards or unsafe practices which could result in minor personal injury or product or property damage.

FOR SAFETY: To Identify actions which must be followed for safe operation of equipment.

Report machine damage or faulty operation immediately. Do not use the machine if it is not in proper operating condition. Following is information that signals some potentially dangerous conditions to the operator or the equipment. Read this information carefully. Know when these conditions can exist. Locate all safety devices on the machine. Please take the necessary steps to train the machine operating personnel.

FOR SAFETY:

DO NOT OPERATE MACHINE:

Unless Trained and Authorized.

Unless Operation Guide is Read and understood.

In Flammable or Explosive areas.

In areas with possible falling objects

WHEN SERVICING MACHINE:

Avoid moving parts. Do not wear loose clothing; jackets, shirts, or sleeves when working on the machine. Use manufacturer approved replacement parts.

Les symboles suivants sont utilisés dans tout ce manuel, tels que décrits ici :

NIVEAU D'INTENSITÉ DU DANGER

Il existe trois niveaux d'intensité du danger, identifiés par des termes d'avertissement - **AVERTISSEMENT**, **ATTENTION** et **POUR VOTRE SÉCURITÉ**. Le niveau d'intensité du danger est déterminé par les définitions suivantes :

AVERTISSEMENT:

AVERTISSEMENT - Les dangers ou des pratiques contraires à la sécurité qui POURRAIENT entraîner des blessures personnelles ou la mort.

ATTENTION:

ATTENTION - Les dangers ou des pratiques contraires à la sécurité qui pourraient entraîner des blessures personnelles légères ou des dégâts sur le produit ou d'autres biens.

POUR DES RAISONS DE SÉCURITÉ : Pour identifier les actions qui doivent être exécutées pour un fonctionnement sûr de l'équipement.

Signaler immédiatement tout dommage subi par la machine ou fonctionnement défectueux. Ne pas utiliser la machine si elle ne fonctionne pas correctement. Ci-dessous se trouvent les informations indiquant les conditions potentiellement dangereuses pour l'opérateur ou l'équipement. Lire attentivement ces informations. Être conscient que ces conditions peuvent survenir. Repérer tous les dispositifs de sécurité sur la machine. Suivre les étapes nécessaires de formation du personnel qui utilise la machine.

POUR DES RAISONS DE SÉCURITÉ :

NE PAS FAIRE FONCTIONNER LA MACHINE :

Sauf si le personnel est formé et autorisé.

Sauf si le manuel d'utilisation est lu et compris.

Dans des zones inflammables ou explosives.

Dans des zones contenant des objets susceptibles de tomber

LORS DE L'ENTRETIEN DE LA MACHINE :

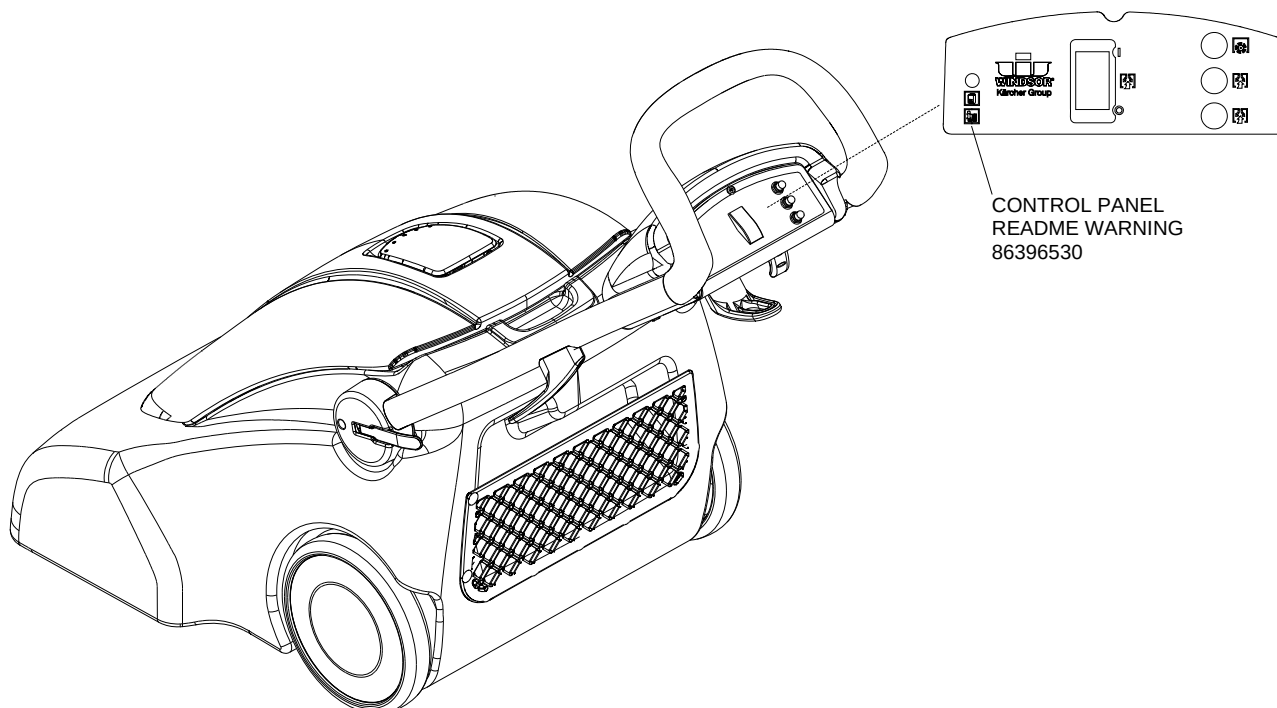
Éviter les pièces mobiles. Ne pas porter de vêtements, vestes, chemises ou manches vagues lors de l'entretien de la machine. Utiliser les pièces de rechange approuvées par le fabricant.

Safety Label Location

NOTE: These drawings indicate the location of safety labels on the machine. If at any time the labels become illegible, promptly replace them.

EMPLACEMENT DE L'ÉTIQUETTE DE SÉCURITÉ

REMARQUE : Ces dessins indiquent l'emplacement des étiquettes de sécurité sur la machine. Si, à tout moment, les étiquettes deviennent illisibles, contactez votre représentant autorisé pour un remplacement rapide



⚠ CAUTION:

This appliance is not intended for use by persons (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 appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

⚠ ATTENTION:

Cet appareil n'est pas prévu à l'usage des personnes (enfants y compris) avec des possibilités physiques, sensorielles ou mentales réduites, ou le manque d'expérience et de connaissance, à moins qu'ils aient été donnés la surveillance ou l'instruction au sujet de l'utilisation de l'appareil par une personne chargée de leur sûreté. Des enfants devraient être dirigés pour s'assurer qu'ils ne jouent pas avec l'appareil.

Grounding Instructions

THIS PRODUCT IS FOR COMMERCIAL USE ONLY.

Electrical

In the USA this machine operates on a standard 15 amp 115 volt A.C. power circuit. The amp, hertz, and voltage are listed on the data label found on each machine. Using voltages above or below those indicated on the data label will cause serious damage to the motors

Extension Cords

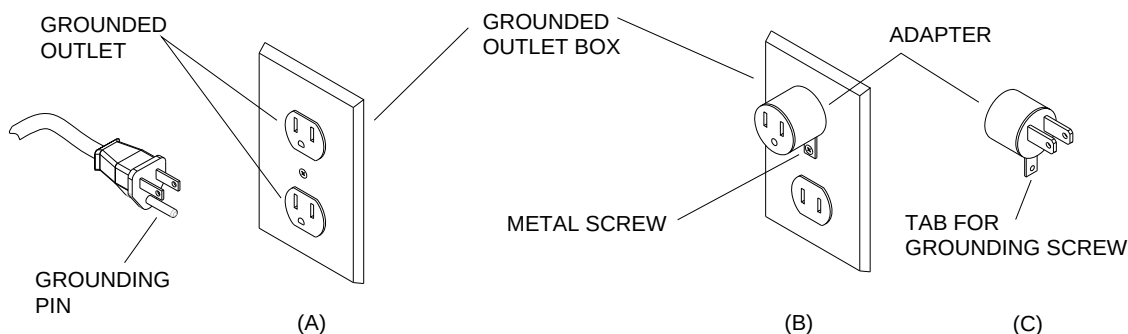
If an extension cord is used, the wire size must be at least one size larger than the power cord on the machine, and must be limited to 50 feet (15.5m) in length.

Grounding Instructions

This appliance 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 appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

120 Volt Models:

This appliance is for use on a nominal 120-volt circuit, and has a grounded plug that looks like the plug illustrated in sketch A. A temporary adapter looks like adapter illustrated in sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in sketch B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet (sketch A) can be installed by a qualified electrician. The green colored rigid ear, lug or the like extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by a metal screw.



⚠ WARNING:

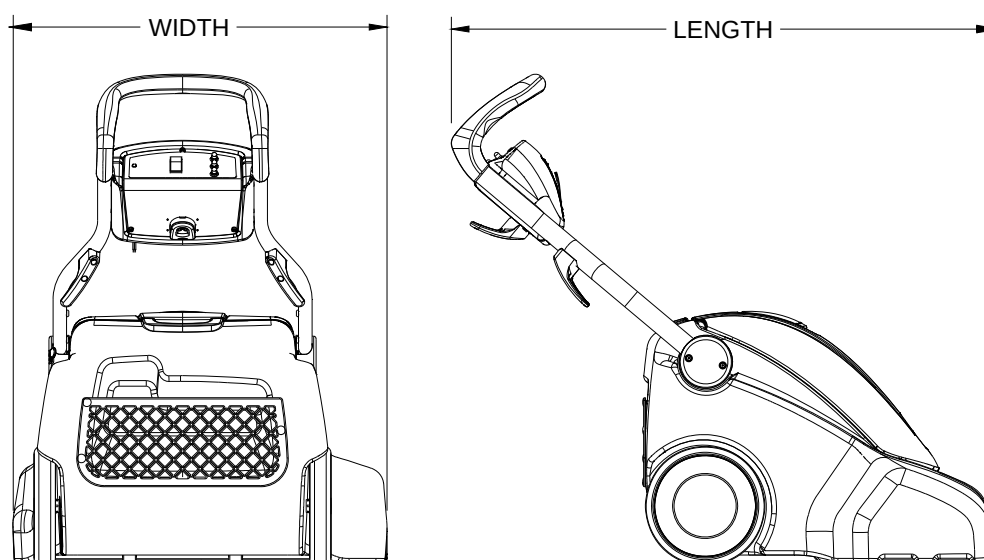
Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

⚠ AVERTISSEMENT:

Une connexion non conforme du conducteur de mise à la terre de l'appareil peut provoquer une décharge électrique. Consulter un électricien qualifié ou une personne du service après vente si vous suspectez que la prise de courant n'est pas correctement mise à la terre. Ne pas modifier la fiche fournie avec l'appareil - si elle ne rentre pas dans la prise, faites installer une prise appropriée par un électricien qualifié.

Technical Specifications

ITEM	DIMENSION/CAPACITY
Rated Amperage (120V)	15 AMPS
Rated Amperage (230V)	7.5 AMPS
Brush Motor	0.5 HP (373 W)
Bag Capacity	792 in ³ (13 L)
Brush	Two 25.5 in. (647mm) by 4 in. (10 mm) diameter
Brush Speed (120 V)	1550 RPM
Brush Speed (230 V)	1350 RPM
Maximum flow rate of machine	129 cfm (61 L/sec)
Maximum suction of machine	20 inches of water (4.97 kPa)
Weight Empty	151 lbs (68 kg)
Tires	9.75 in. (247mm) non-marking
Frame Construction	Powder coated steel



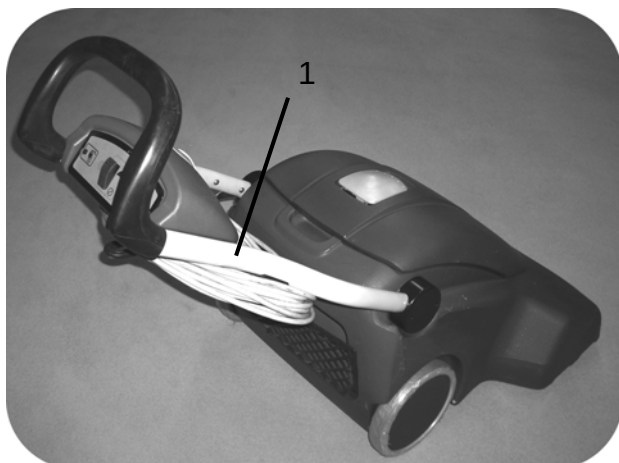
ITEM	MAXIMUM	STORAGE
Height	44 inches (1120 mm)	21 inches (530 mm)
Length	51.5 inches (1310 mm)	33 inches (840 mm)
Width	30.5 inches (770 mm)	30.5 inches (770 mm)

Special Notes:

The sound pressure level at the operator's ear was measured to be 74dBA . This was a nearfield, broadband measurement taken on a carpeted floor. This appliance contains no possible source of impact noise. The instantaneous sound pressure level is below 63 Pa. The weighted root mean square acceleration at the operator's arms was measured to be below 2.5m/s². This was a tri-axial, third-octave-band measurement made during normal operation on a composite tile floor. The measurement and related calculations were made in accordance with ANSI S3.34-1986.

This appliance is not intended for use by persons (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 appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

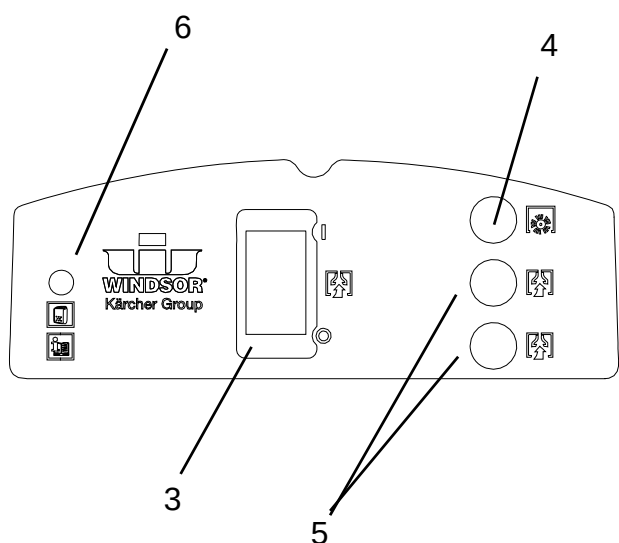
Controls & Components



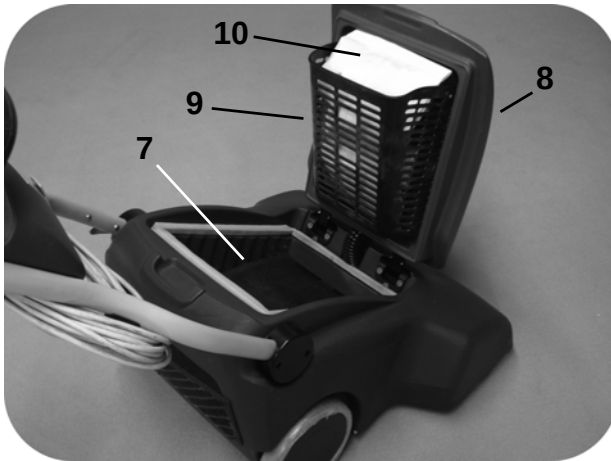
1. Main Handle
Adjust for operator comfort and storage.



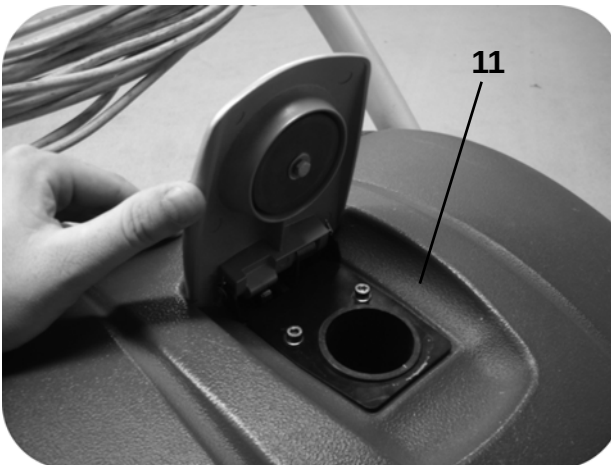
2. Handle Adjustment Lever
Adjusts for operator comfort and storage.



3. Vac on/off switch.
Turns on and off vac motor.
4. Brush Motor Circuit Breaker
Protects brush motor from overheating.
5. Vac Motor Circuit Breakers
Protects the vac motors from overheating.
6. Bag Full Indicator Light
Indicates when filter bag requires replacement or a clog in the vacuum system ducting.



- 7. Intake Filter
Filters intake air for extend vacuum motor life.
- 8. Filter Bag Cover
Raises to allow access to filter bag and vacuum motors.
- 9. Filter Bag Basket
Locates filter bag for maximum fill efficiency and easy changing.
- 10. Filter Bag
Lift out easily for service.



- 11. Accessory Port
Lift port to attach optional accessory hose. Brush motor will be deactivated during accessory use.

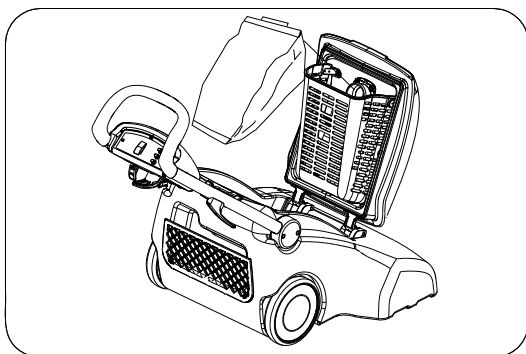
Setup



1. Take machine out of storage position by lowering onto all four wheels.



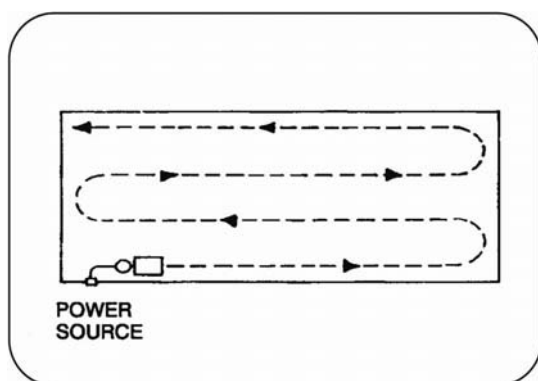
2. Adjust handle to comfortable position at waist level by opening adjustment lever on left side of machine and moving handle. Lock back into position by closing adjustment lever.



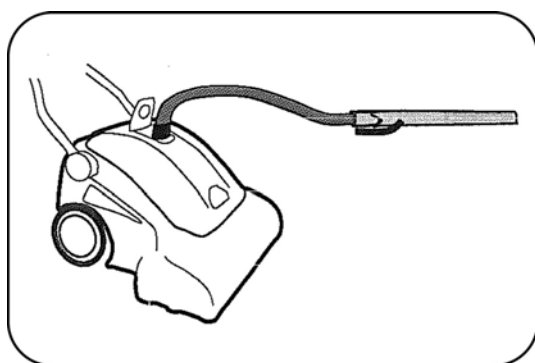
3. Install filter bag inside the main body by pushing the rubber collar over the chute.



Cleaning Route



Accessory Port



Cord Hooks



How this Machine Operates

This machine is a portable, easy to use wide area vacuum designed for use indoors, in a commercial or light industrial environment.

When operating as a carpet vacuum, soil is lifted from the carpet surface by two counter-rotating brushes and carried into a removable bag by the vacuum motors.

1. Large debris such as paper cups, plates, string, etc., should be picked up before starting the cleaning process.
2. Plan your cleaning route to work away from the electrical source. Move machine forward at a steady pace.

Cleaning

1. Adjust handle to comfortable position at waist level or higher.
2. Use your finger to depress the Vacuum switch on the control panel to activate the vacuum.
3. When using optional accessory tool, brushes will be deactivated when accessory port is lifted.

! WARNING:

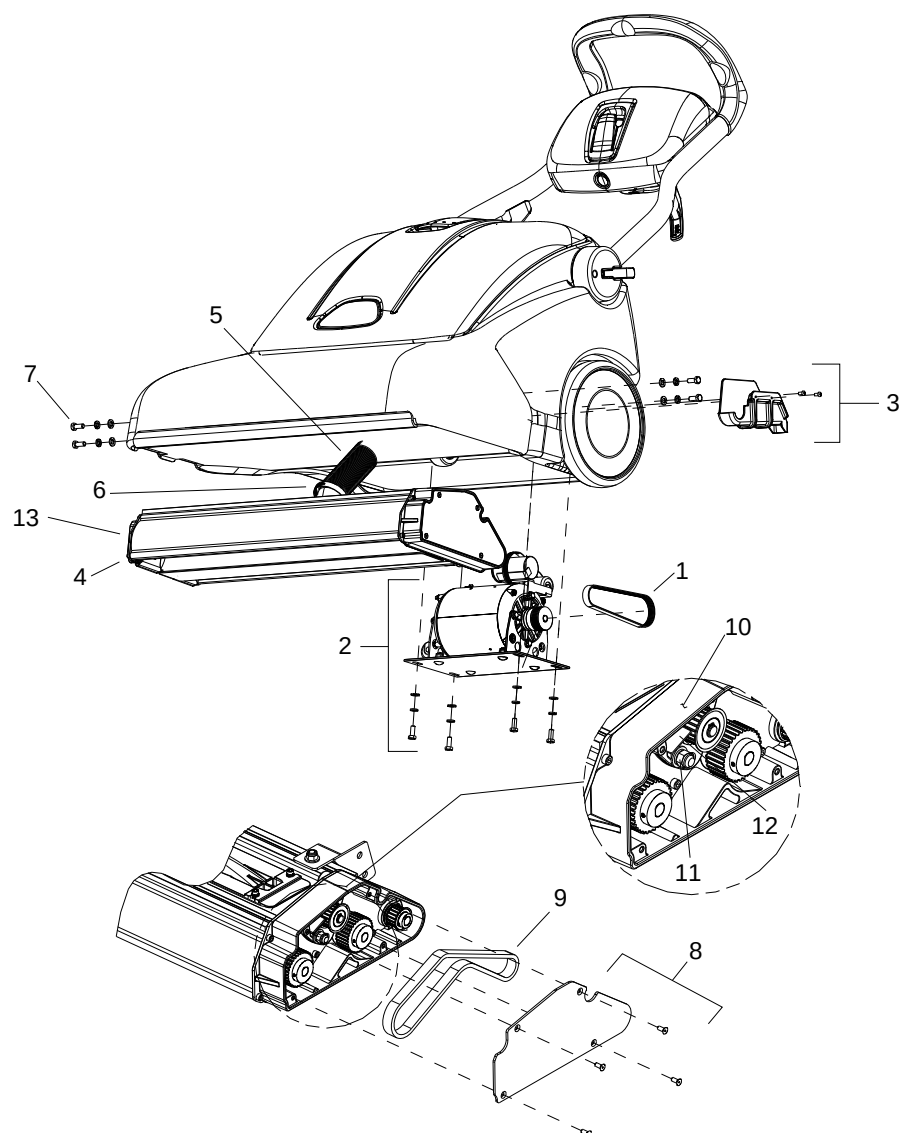
Keep machine moving while brush engaged. Damage to carpet could occur if not moving.

! AVERTISSEMENT:

Gardez la machine en mouvement lorsque la brosse est engagée. Sinon, des dommages peuvent se produire au tapis.

4. Move forward or backwards at a steady pace for thorough cleaning. Run machine more slowly over extremely soiled areas.
5. Use the right side of the machine for edge cleaning.
6. To keep the vacuum operating at maximum efficiency, check the filter bag regularly. Use the upper and lower access holes in basket to feel level of fullness. Empty when 1/2 to 3/4 full.
7. When finished vacuuming, coil the cord by wrapping around the three cord hooks provided on the handle tubes and control panel. The upper hook pivots for easy release of the cord.

Components



- | | |
|------------------------------|------------------------------|
| 1. Primary Drive Belt | 8. Drive Housing Cover Plate |
| 2. Brush Motor Assembly | 9. Secondary Timing Belt |
| 3. Belt Guard | 10. Drive Housing |
| 4. Brush Deck Assembly | 11. Belt Tensioning Nut |
| 5. Vacuum Hose | 12. Belt Tensioning Bracket |
| 6. Hose Clamp | 13. Retaining Clips |
| 7. Brush Deck Mounting Bolts | |

NOTE: The following service items should be performed by an authorized service facility or authorized service personnel. All parts referred to in these instructions can be identified by using the parts lists and illustrations on the following pages.

⚠ WARNING:

Remove machine power cord from electrical source before making any repairs or adjustments to the machine.

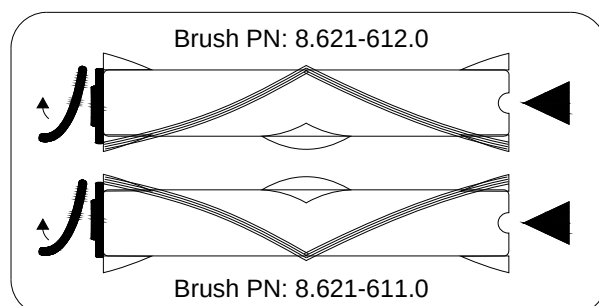
⚠ AVERTISSEMENT:

Retirez le cordon d'alimentation de la machine de la source électrique avant de procéder à des réparations ou des ajustements de la machine.

Brush Deck

The dual cylindrical brush deck is designed to efficiently extract dirt from the carpet. Please note the differences between the front/rear brushes. Installing them in reverse position will significantly reduce the performance of the machine. The brush part numbers are marked on drive ends of the brush core as follows:

8.621-612.0 - Front Brush



8.621-611.0 - Rear Brush

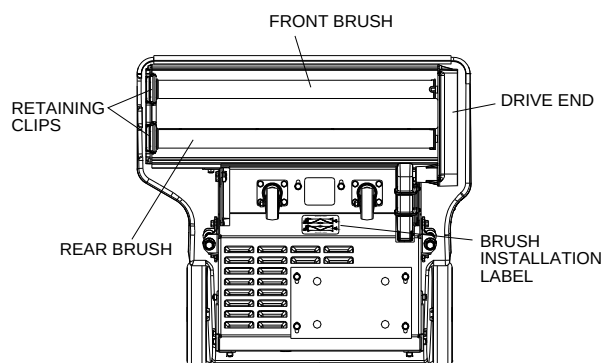
Brushes should be replaced as a set when bristle length wears to height of yellow PerformAlert™ bristles.

Brush Removal

The brushes are removed from the right side of the machine.

1. Adjust handle into the vertical position and lock the cam lever. Tilt machine on it's back using handle to support it's position.
2. Pull out on the bottom of the retaining clip.

3. The brush assembly and end cap should drop down. Then pull the brush down far enough to clear the bottom of the housing.
4. Pull brush out with a rocking motion to free brush from drive hub.



Bearing Cleaning

1. Remove bearing cap from end of brush.
2. Clean cap and bearings.



Brush Replacement

1. Make sure the brushes are in the correct position (front/rear) by following the brush installation label on the underside of the machine. Lift the drive side of the brush and push it onto drive hub until a positive stop is felt. The brush cannot be installed until the brush is fully seated on the drive hub.
2. Pull out on the bottom of the retaining clip.
3. Line up end cap with the flats to each side.
4. Slide brush up into retaining clip until it clicks in place.

Belt Replacement

The primary drive belt and secondary belt should be replaced if they are damaged or broken. To determine if a belt is damaged or broken, there will be a noticeable drop in the performance of the machine or the brushes will not spin when the machine is turned on.

Primary Drive Belt Replacement

The primary drive belt is removed from the under side of the machine.

1. Unplug power cord.
2. Adjust handle into vertical position and lock cam lever. Tilt machine on it's back using handle to support it's position.
3. Remove belt guard by loosening the (2) mounting screws.
4. Remove brush motor assembly by loosening the (4) mounting bolts.
5. Remove damaged or broken belt from drive pulleys and replace with a new drive belt. Be sure the grooves in the drive belt match the grooves in the drive pulleys.
6. Install brush motor assembly with new drive belt to the machine by using the (4) mounting bolts. With mounting bolts in place but not fully tightened, use weight of the brush motor assembly to apply proper tension to the drive belt. Once the belt is properly tensioned, fully tighten the mounting bolts.
7. Attach belt guard to the frame by using the (2) mounting screws.
8. Plug machine into a power supply and turn it on to assure the machine is running properly.

Secondary Belt Replacement

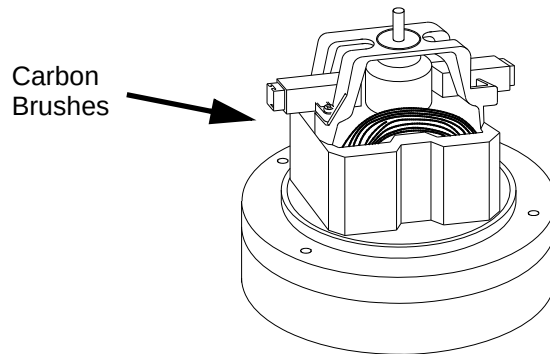
The secondary belt can be accessed from the under side of the machine.

1. Unplug power cord.
2. Adjust handle into the vertical position and lock the cam lever. Tilt machine on it's back using the handle to support it's position.
3. Remove belt guard by loosening the (2) mounting screws.
4. Loosen the 4 mounting bolts for brush motor assembly to relieve primary drive belt tension. Do not fully remove the (4) mounting bolts. Remove primary drive belt from the brush deck pulley.
5. Remove brush deck assembly by loosening the 4 mounting bolts that attach it to the linkage arms (2) bolts on the right side and (2) on the left side). With the brush deck assembly removed, detach vacuum hose from the nozzle by loosening hose clamp.
6. The secondary belt can now be accessed on the right side of brush deck assembly by removing the (4) screws that mount the drive housing cover/plate.
7. Loosen nut on the belt tensioning bracket and remove damaged/broken belt. Install new secondary belt in the same configuration.
8. Apply tension to belt by pressing thumb tab on belt tensioning bracket. Tighten the nut on belt tensioning bracket until proper tension is achieved. Test belt by spinning brushes. Brushes should spin easily without excessive friction.
9. Replace drive housing cover/plate, reattach the vacuum hose to nozzle, and reassemble brush deck to machine by using the (4) mounting bolts (2) on right side and (2) on left side.
10. Reattach primary drive belt to brush deck pulley making sure the grooves line up properly. Apply proper tension to primary drive belt and tighten the (4) mounting bolts on brush motor assembly. Reattach primary belt guard.
11. Plug machine into a power supply and turn it on to assure the machine is running properly.

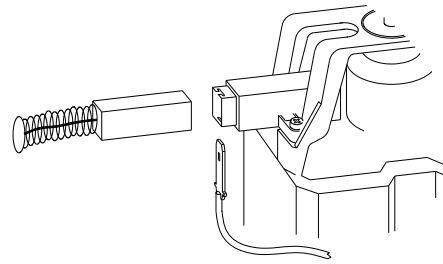
Remove Vac Motor And Filters

1. Unplug power cord.
2. Open cover.
3. Remove (6) screws from vacuum motor retaining plate.
4. Remove (8) screws from vac motor brackets, (4) each bracket.
5. Lift vacuum motors out of machine body.

Vacuum Motor Carbon Brushes Replacement

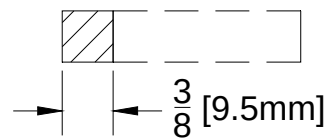


If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center.



Important:

These brushes wear quicker as the length shortens due to increased heat. Spring inside brush housing will damage motor if brushes are allowed to wear away completely.



Periodically check the length of the carbon brushes. Replace both carbon brushes when either is less than 3/8" (9.5mm) long.

Daily Maintenance

1. Unplug power cord.
2. Shake down the contents of the bag daily.
3. Check power cord for damaged or frayed insulation.
4. Check for and remove any lint or debris around brush and brush housing.

Regular/periodic Maintenance

1. Unplug power cord.
2. Every 4 to 6 months remove wheels, clean axles, and apply a thin coat of silicone lubricant to axles.
3. Inspect and clean vac motor filters.
4. Periodically inspect all hoses, electrical cables, filters, gaskets and connections on your machine. Frayed or cracked hoses should be repaired or replaced to eliminate vacuum loss.
5. The electrical cable must be well insulated, if the cable insulation is broken or frayed, repair or replace it immediately. Don't take chances with electrical fire or shock.

Service Schedule

MAINTENANCE	DAILY	WEEKLY	MONTHLY	QUARTERLY
Check bag and replace if necessary	*			
Check filters and replace if necessary	*			
Check hoses for wear, blockages, or damage	*			
Inspect base for clogs	*			
Check vac nozzle for clogs; remove clogs with fingers (if appropriate)	*			
Check major gaskets for leakage	*			
Check brush-should be clean with no lint or strings attached	*			
Wind cord and store in upright position	*			
Remove bearing cap from end of brush. Clean bearing and cap.	*			
Check hoses for cracks or holes		*		
Check all cords and handles for damage or cracks; replace as necessary		*		
Check brushes for wear; replace if necessary		*		
Check brush strip for wear; replace if necessary		*		
Inspect and replace all filters including exhaust, intake			*	
Inspect, clean, and repair power head - including brush housing			*	
Check all bearings for fiber build-up and noise			*	
Check all gaskets for wear and leakage			*	
Check belts for wear; replace if necessary			*	
Check vac motor carbon brushes				*
Check for arcing and pitting on any electrical contacts; replace if found				*
Inspect and clean vac deck; check for dents and damage which would detrimentally effect vacuum and brush movement				*
Check overall performance of machine				*

Suggested Spare Parts

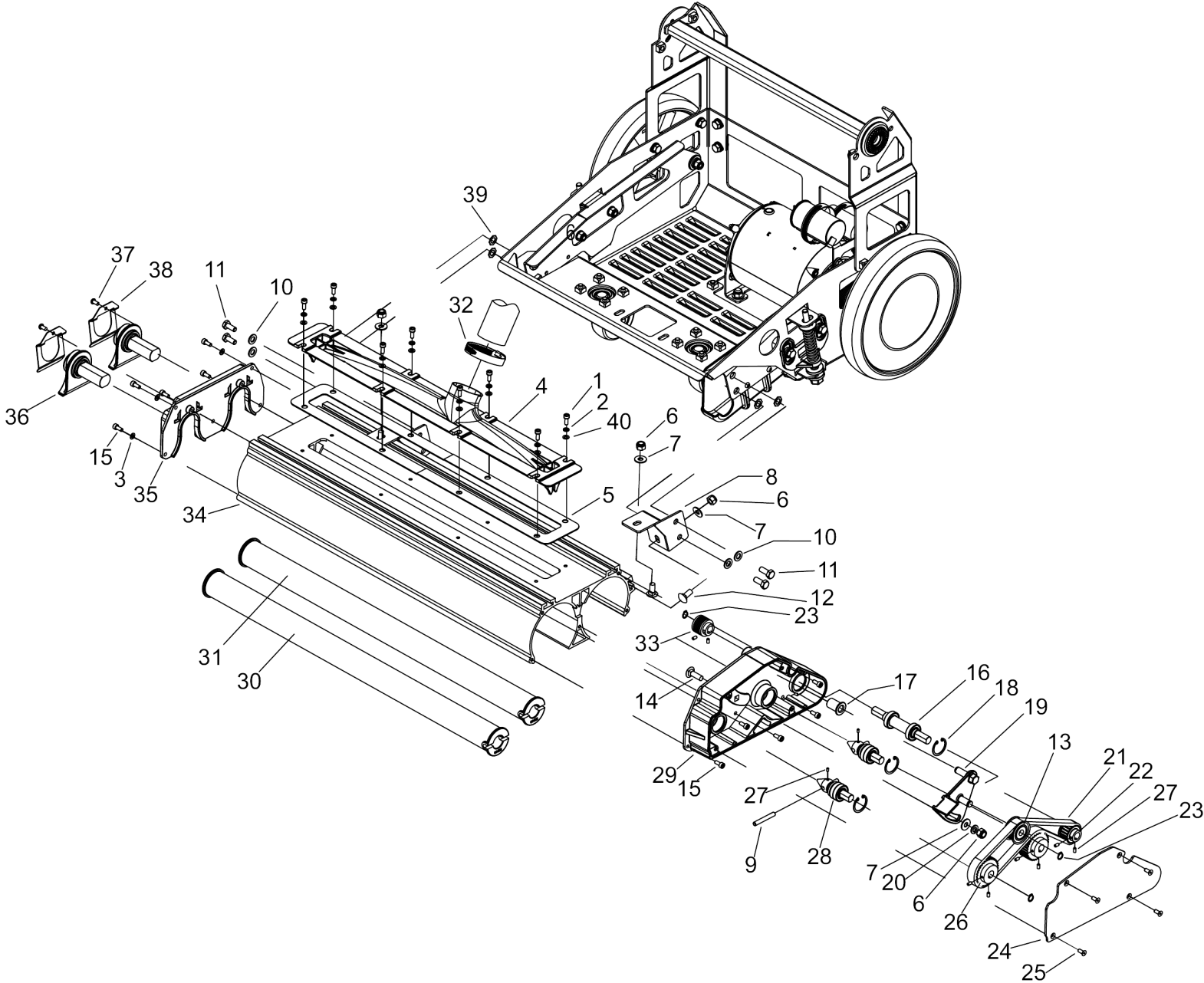
PART NO.	DESCRIPTION	SERIAL NO. FROM	NOTES:
86216120	BRUSH, 25.5 X 4.0 OD, FRONT		
86216110	BRUSH, 25.5 X 4.0 OD, REAR		
86215310	BELT, TIMING, 5MM X 15MM X 575		
86291380	BELT, 290J6, MICRO-V		
86135320	BRUSH SET		120V & 230V
86215090	BAG, PAPER WIDE AREA VAC		
86224630	SPRING, BRUSH CLIP		
86217850	FILTER, VAC CHAMBER		

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WIDE AREA VACUUM 26" 115V (1.012-533.0)

POS	Description	Quantity	Unit	Remark
100	Brush Deck	1.000	ST	
110	Brush Motor	1.000	ST	
120	Control Panel	1.000	ST	
130	Cover	1.000	ST	
140	Decal	1.000	ST	
150	Frame	1.000	ST	
160	Handle	1.000	ST	
200	Holster	1.000	ST	OPTION
170	Housing	1.000	ST	
210	NuWave Serial Numbers	1.000	ST	
180	Vacuum	1.000	ST	
190	Wiring Diagram - 120V	1.000	ST	

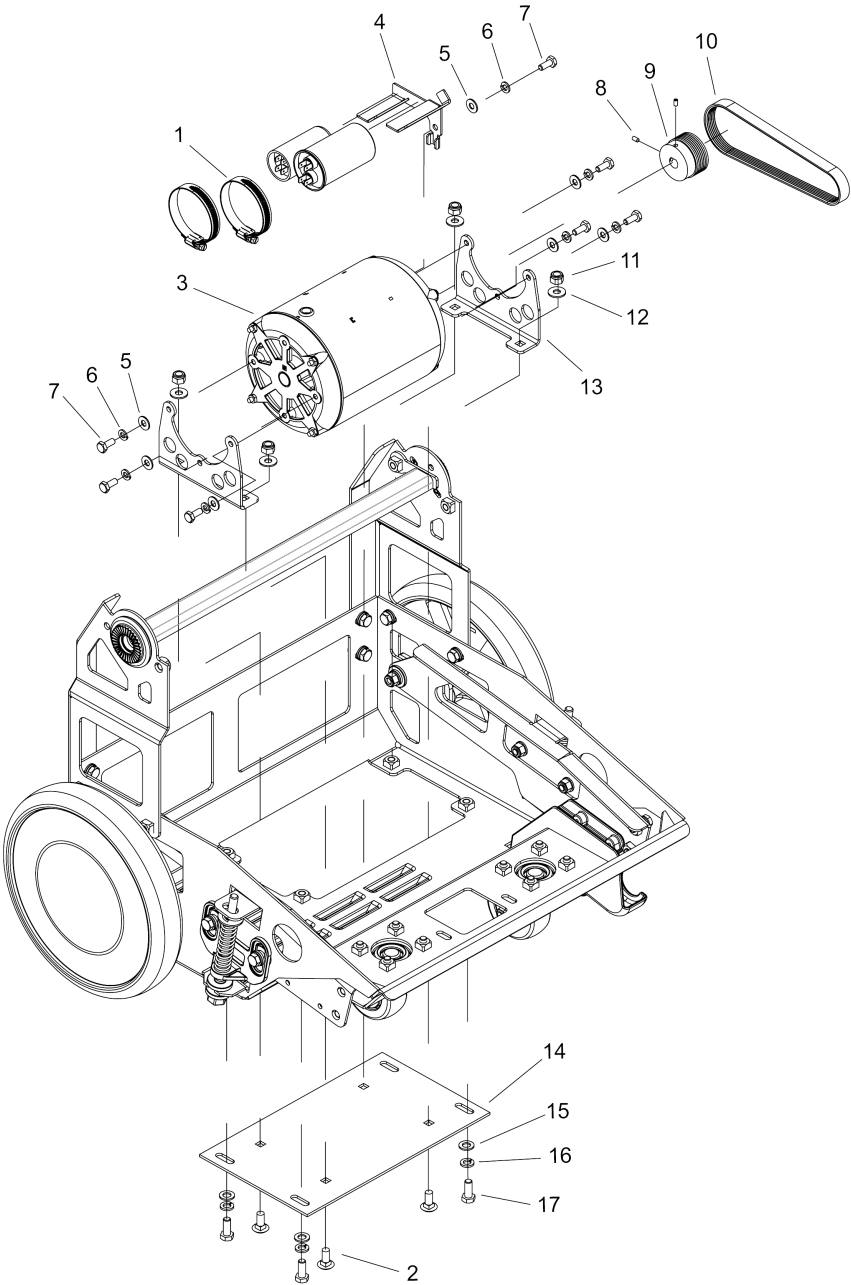


100 Brush Deck

POS	Article no.	Description	Quantity	Unit
16	8.629-320.0	ASSEMBLY, JACK SHAFT, NUWAV	1.000	ST
17	8.621-523.0	BEARING, BRONZE FLANGED	1.000	ST
21	8.621-531.0	BELT, TIMING, 5MM X 15MM X 575	1.000	ST
19	8.621-553.0	BRACKET, BELT TENSIONER	1.000	ST
30	8.621-612.0	BRUSH, 25.5 X 4.0 OD, FRONT	1.000	ST
31	8.621-611.0	BRUSH, 25.5 X 4.0 OD, REAR	1.000	ST
32	8.621-675.0	CLAMP, WORM GEAR 40 - 64MM	1.000	ST
34	8.621-781.0	EXTRUSION, DUAL BRUSH DECK	1.000	ST
5	8.621-814.0	GASKET, VAC NOZZLE	2.000	ST
29	8.621-940.0	HOUSING, BRUSH DRIVE	1.000	ST
35	8.621-941.0	HOUSING, BRUSH RELEASE CLIP	1.000	ST
4	8.629-011.0	NOZZLE, VACUUM, DECK	1.000	ST
6	8.627-083.0	NUT, 5/16-18 HEX NYLOCK SS	5.000	ST
24	8.622-289.0	PLATE, BRUSH DRIVE COVER	1.000	ST
22	8.622-331.0	PULLEY, 5MM HTD, 18T, 12.7ID	1.000	ST
26	8.622-332.0	PULLEY, 32T, 5MM HTD	2.000	ST
33	8.629-114.0	PULLEY, MICRO-V, 1.125 OD	1.000	ST
13	8.601-278.0	PULLEY ASM, 5MM HTD 22T	1.000	ST
23	8.622-349.0	RING, 10MM EXT SNAP, DIN 471	2.000	ST
18	8.622-352.0	RING, 28MM INT SNAP PHOSPHATE	3.000	ST
12	8.629-338.0	SCREW, 5/16-18 X .75 CARR	4.000	ST
14	8.627-713.0	SCREW, 5/16-18 X 1 CARR SS	1.000	ST
37	8.617-298.0	SCREW, KA50 X 10 OVHCS STL WN1412 ZNPLT	2.000	ST
25	8.617-297.0	SCREW, M5 X 12 PHFLHMS SS ISO7046	4.000	ST
15	8.629-340.0	SCREW, M5-.8 X 12 SCHCS GR10.9 ZNPLT	10.000	ST
1	8.629-339.0	SCREW, M5-.8 X 15 SCHCS GR10.9 BLKOX	8.000	ST
11	8.629-596.0	SCREW, M10-1.5 X 20 HHMS GR8.8 ZNPLT	4.000	ST
9	8.622-417.0	SHAFT, 6.2MM BRUSH DRIVE	2.000	ST
28	8.601-279.0	SHAFT ASM, BRUSH DRIVE	2.000	ST
36	8.629-323.0	SHAFT ASSY, BRUSH END CAP	2.000	ST
38	8.622-463.0	SPRING, BRUSH CLIP	2.000	ST
27	8.622-378.0	Threaded pin M4X8	10.000	ST
7	8.601-067.0	WASHER, 5/16 FLT SS	5.000	ST

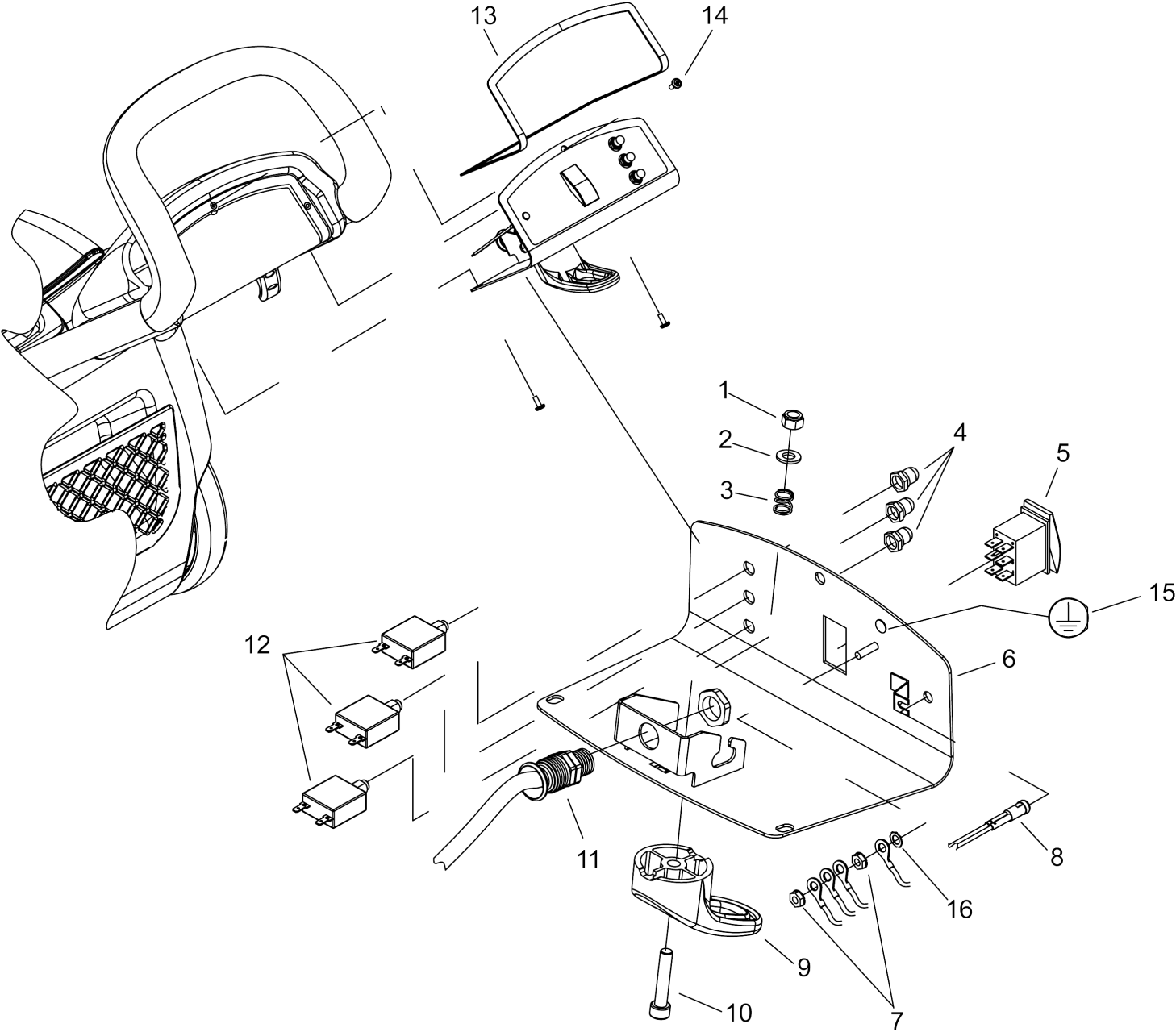
100 Brush Deck

POS	Article no.	Description	Quantity	Unit
20	8.627-913.0	WASHER, 5/16 SPLT STL ZNPLT	1.000	ST
3	8.617-335.0	WASHER, M5 FLT SS ISO7089	5.000	ST
2	8.613-730.0	WASHER, M5 SPL STL ZNPLT	8.000	ST
40	8.617-333.0	WASHER, M5 SS ISO7093	8.000	ST
10	8.601-072.0	WASHER, M10 FNDR STL ZNPLT	4.000	ST
39	8.629-597.0	WASHER, M10 INTLK	4.000	ST
8	8.629-246.0	WELDMENT, DECK LEVELING BRKT	2.000	ST



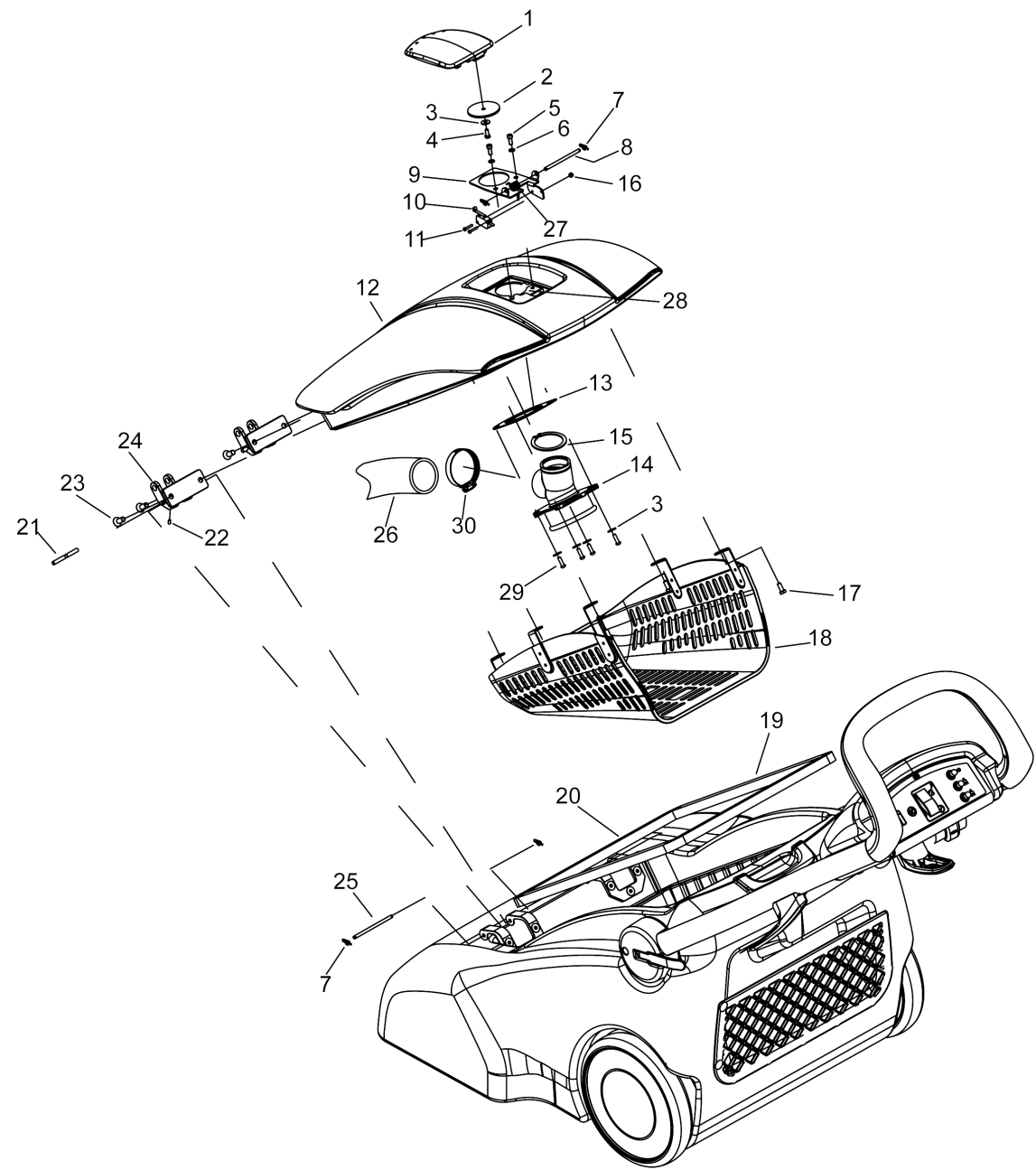
110 Brush Motor

POS	Article no.	Description	Quantity	Unit	Remark
10	8.629-138.0	BELT, 290J6, MICRO-V	1.000	ST	
4	8.601-258.0	BRACKET, CAPACITOR, MOTOR MNT	1.000	ST	
13	8.621-555.0	BRACKET, MOTOR MOUNT	2.000	ST	
1	8.621-675.0	CLAMP, WORM GEAR 40 - 64MM	2.000	ST	
3	8.622-212.0	MOTOR, 115V, 0.5HP, INDUCTION	1.000	ST	INCLUDES #18, 19 CAPACITORS
3	8.622-215.0	MOTOR, 230V .5HP INDUCTION	1.000	ST	INCLUDES #20, 21 CAPACITORS
11	8.627-083.0	NUT, 5/16-18 HEX NYLOCK SS	4.000	ST	
14	8.622-290.0	PLATE, MOTOR BASE	1.000	ST	
9	8.629-115.0	PULLEY, MICRO-V, 1.80 OD	1.000	ST	
20	8.633-287.0	RUN CAPACITOR 6 UF	1.000	ST	NOT SHOWN
18	8.633-282.0	RUN CAPACITOR 25 UF	1.000	ST	NOT SHOWN
7	8.629-327.0	SCREW, 1/4-20 X .625 HHCS GR8.8 ZNPLT	7.000	ST	
2	8.629-338.0	SCREW, 5/16-18 X .75 CARR	4.000	ST	
17	8.627-486.0	SCREW, M8 X 20 HHMS	4.000	ST	
21	8.633-288.0	START CAPACITOR 50 UF	1.000	ST	NOT SHOWN
19	8.633-283.0	START CAPACITOR 150 UF	1.000	ST	NOT SHOWN
8	8.622-378.0	Threaded pin M4X8	2.000	ST	
6	8.617-334.0	WASHER, 1/4 SPL SS	7.000	ST	
5	8.601-063.0	WASHER, 1/4 SS	7.000	ST	
12	8.601-067.0	WASHER, 5/16 FLT SS	4.000	ST	
16	8.627-913.0	WASHER, 5/16 SPLT STL ZNPLT	4.000	ST	
15	8.613-728.0	WASHER, M8 FLT STL DIN125A ZNPLT	4.000	ST	



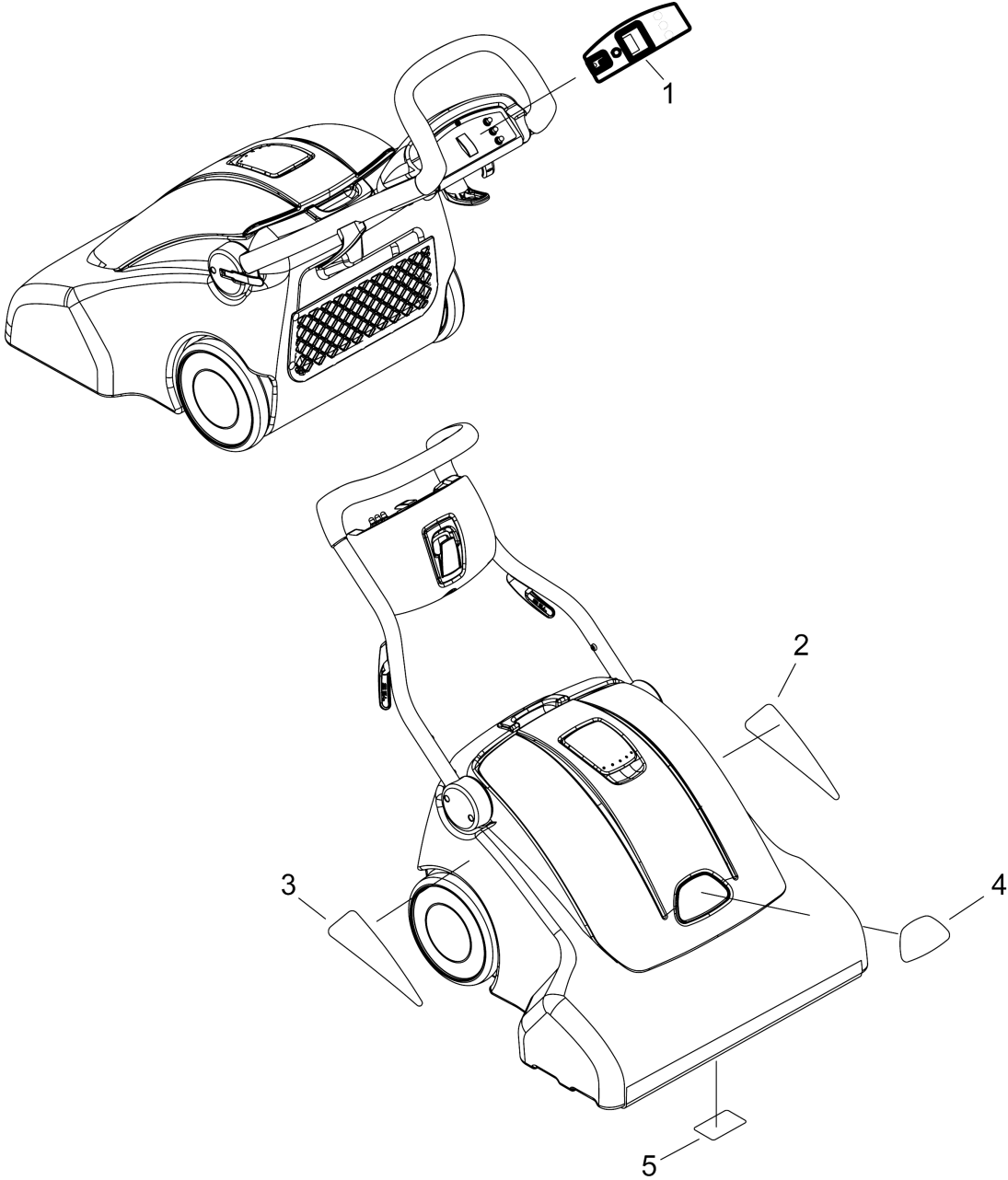
120 Control Panel

POS	Article no.	Description	Quantity	Unit	Remark	Foot note text
4	8.621-541.0	BOOT, CIRCUIT BREAKER MP/MB	3.000	ST		
12	8.621-571.0	BREAKER, 5A VDE CIRCUIT	3.000	ST	230V ONLY	
12	8.621-567.0	BREAKER, 8A VDE CIRCUIT	3.000	ST	120V ONLY	
11	8.621-715.0	CORD ASM, 14/3 SJT X 75' YLW	1.000	ST		
11	8.621-717.0	CORD ASM, AUST 1.5MM X 75 BLK	1.000	ST		
11	8.621-716.0	CORD ASM, EURO 1.5MM X 75 BLK	1.000	ST		
13	8.621-829.0	GASKET, CONSOLE, HANDLE	4.000	ST		
9	8.621-896.0	HOOK, UPPER, CORD	1.000	ST		BLACK
9	8.633-561.0	HOOK, UPPER, CORD YLW	1.000	ST		YELLOW
15	8.629-932.0	LABEL, GROUND SYMBOL	1.000	ST	230V ONLY	
8	8.622-182.0	LIGHT, INDICATOR, RED, 120VAC	1.000	ST		
7	8.600-570.0	NUT, 10-32 HEXSTRW LK STL ZNPLT	2.000	ST		
1	8.617-264.0	NUT, M8X1.25 NYLOCK SS	1.000	ST		
14	8.627-682.0	SCREW, 10-32 X .5 PHTRHMS	3.000	ST		
10	8.622-383.0	SCREW, M8-1.25 X 40 SCHCS SS ISO4762	1.000	ST		
3	8.622-473.0	SPRING, COMP, 12MM OD X 12.7MM	1.000	ST		
5	8.600-713.0	Switch DPDT 2-POSITION ROCKER	1.000	ST		
16	8.601-064.0	Washer #10 LOCK EXT STAR SS	1.000	ST		
2	8.617-330.0	WASHER, M8 FLT SS ISO7098	1.000	ST		
6	8.622-596.0	WELDMENT, ELECTRICAL PANEL	1.000	ST		



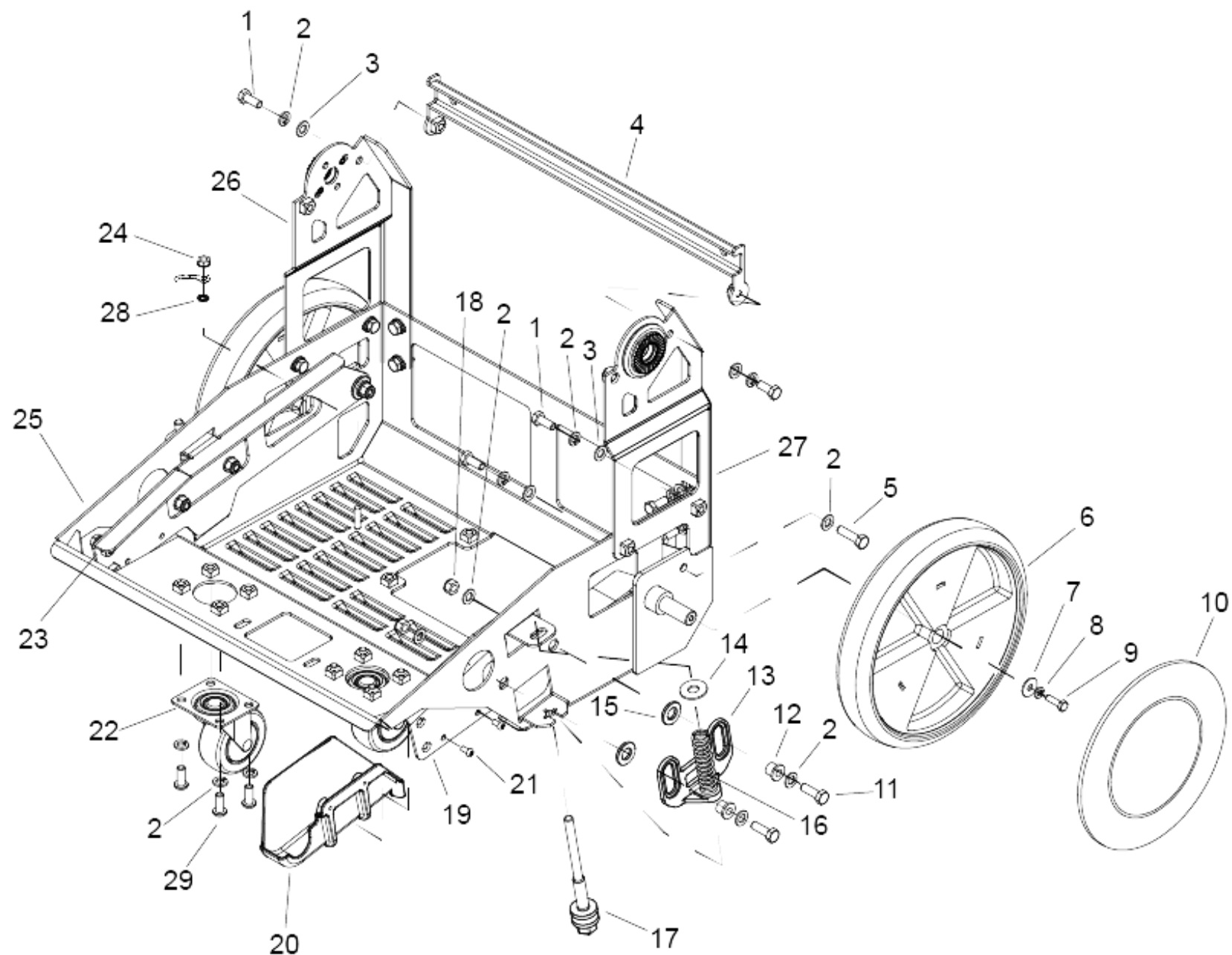
130 Cover

POS	Article no.	Description	Quantity	Unit	Remark
-	8.621-509.0	BAG, PAPER WIDE AREA VAC	1.000	ZST	NOT SHOWN
18	8.621-516.0	BASKET, FILTER BAG MOLDED	1.000	ST	
9	8.621-603.0	BRKT, ACCESSORY PORT HINGE	1.000	ST	
30	8.621-675.0	CLAMP, WORM GEAR 40 - 64MM	1.000	ST	
1	8.633-562.0	COVER, ACCESSORY PORT, YLW	1.000	ST	
14	8.621-788.0	FITTING, ACCESSORY PORT	1.000	ST	
19	8.623-808.0	GASKET,1 W X 5/8 FOAM, M	2.000	ST	
20	8.623-807.0	GASKET, 1 W X 5/8 THK FOAM,F	2.000	ST	
2	8.621-830.0	GASKET, ACCESSORY PORT COVER	1.000	ST	
13	8.621-820.0	GASKET, FITTING ACCESSORY PORT	1.000	ST	
24	8.621-893.0	HINGE, LID	2.000	ST	
26	8.621-912.0	HOSE, 2.0 ID X 15.75L, 3.5:1	1.000	ST	
12	8.629-999.0	LID, NUWAV, TRIMMED, BLK	1.000	ST	
16	8.629-553.0	NUT, M3X0.5 HEX ZNPLT	1.000	ST	
7	8.600-865.0	PIN, COTTER RING 1/4 X .041 X .844	6.000	ST	
8	8.622-262.0	PIN, M5 X 85	1.000	ST	
21	8.622-264.0	PIN, M6 X 60 SS	2.000	ST	
25	8.622-263.0	PIN, M6 X 95	2.000	ST	
28	8.622-296.0	PLATE, ACCESSORY PORT	1.000	ST	
29	8.601-453.0	SCREW, KA50 X 16 OVHCS STL WN1412 ZNPLT	4.000	ST	
11	8.617-311.0	SCREW, M3 X 16 BTNHSCHCS SS ISO7680	2.000	ST	
4	8.629-336.0	SCREW, M5-.8 X 12 HHCS GR8.8 ZNPLT	1.000	ST	
5	8.629-339.0	SCREW, M5-.8 X 15 SCHCS GR10.9 BLKOX	2.000	ST	
17	8.627-434.0	SCREW, M6 X 16 PHMS SS	6.000	ST	
23	8.629-342.0	SCREW, M8-1.25 X 20 FLHCS GR10.9 BLKOX	4.000	ST	
15	8.631-192.0	SNAP RING, 50MM ID, BLACK	1.000	ST	
27	8.622-477.0	SPRING, TORSION	1.000	ST	
10	8.622-508.0	SWITCH, 125VAC SP NC ROLLER	1.000	ST	
22	8.622-378.0	Threaded pin M4X8	2.000	ST	
6	8.617-335.0	WASHER, M5 FLT SS ISO7089	2.000	ST	
3	8.617-333.0	WASHER, M5 SS ISO7093	5.000	ST	



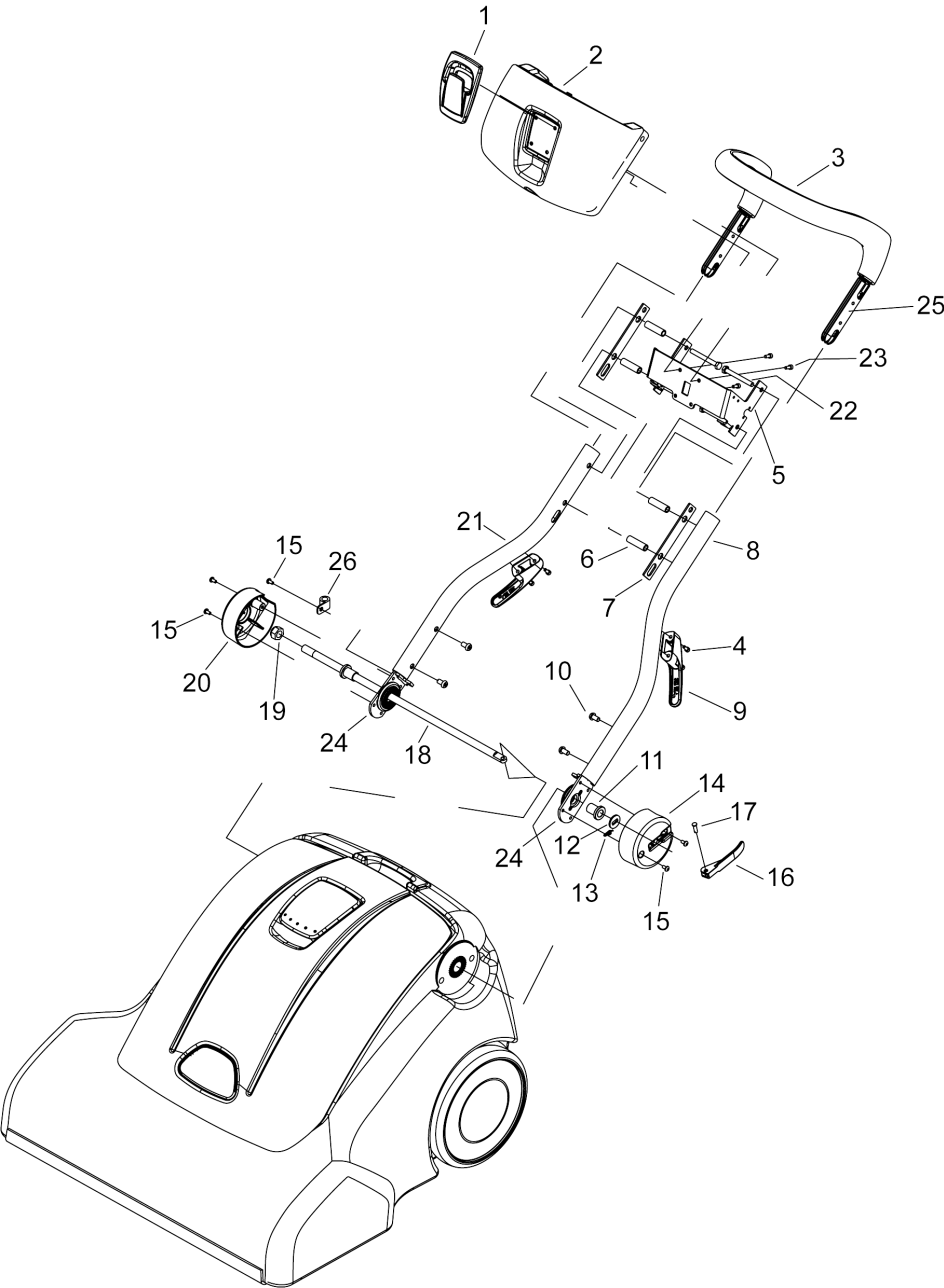
140 Decal

POS	Article no.	Description	Quantity	Unit
5	8.601-259.0	LABEL, BRUSH INSTALLATION	1.000	ST
1	8.639-653.0	LABEL, CONTROL PANEL VACUUM	1.000	ST
3	8.639-655.0	LABEL, NUWAVE LEFT	1.000	ST
2	8.639-654.0	LABEL, NUWAVE RIGHT	1.000	ST
4	8.639-540.0	LABEL, WINDSOR LOGO DOMED	1.000	ST



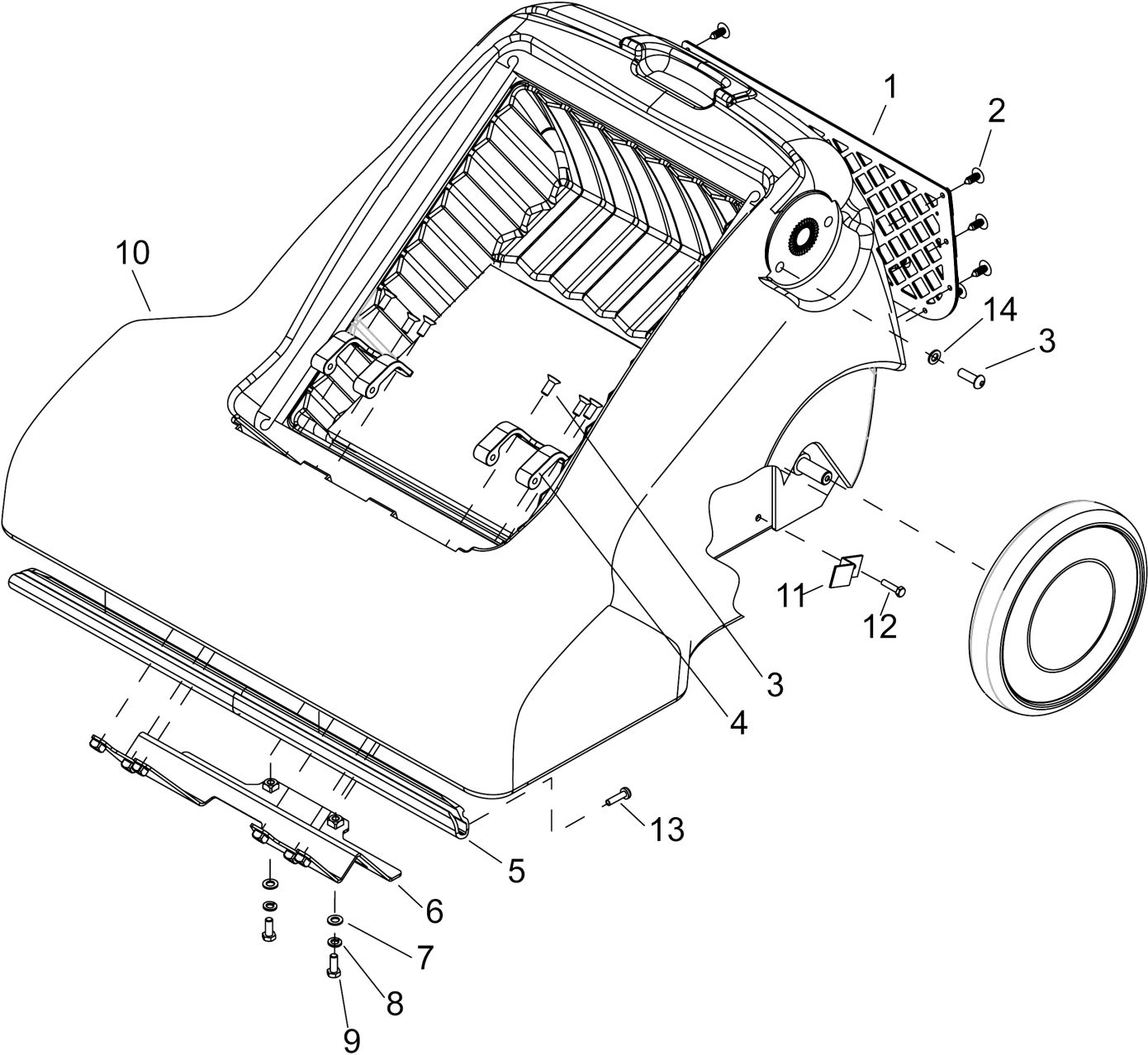
150 Frame

POS	Article no.	Description	Quantity	Unit
19	8.621-602.0	BRKT, DECK LINKAGE, LEFT	1.000	ST
23	8.621-601.0	BRKT, DECK LINKAGE, RIGHT	1.000	ST
13	8.621-589.0	BRKT, SPRING ADJUST	2.000	ST
12	8.622-884.0	BUSHING, .314 X .502 X .5 FLG	6.000	ST
25	8.621-798.0	FRAME, WELDMENT	1.000	ST
20	8.621-843.0	GUARD, BELT BRUSH DRIVE	1.000	ST
10	8.630-007.0	HUBCAP, 9.75" WHEEL, BLACK	2.000	ST
24	8.600-570.0	NUT, 10-32 HEXSTRW LK STL ZNPLT	1.000	ST
18	8.619-661.0	NUT, M8X1.25 HEX NYLOCK	6.000	ST
17	8.622-381.0	SCR, ADJUSTMENT DECK SPRING	2.000	ST
21	8.617-298.0	SCREW, KA50 X 10 OVHCS STL WN1412 ZNPLT	2.000	ST
9	8.629-343.0	SCREW, M6-1 X 15 HHCS GR10.9 BLKOX	2.000	ST
1	8.627-486.0	SCREW, M8 X 20 HHMS	10.000	ST
29	8.627-753.0	SCREW, M8-1.25 X 20 HHCS STL CL8.8 ZNPLT	8.000	ST
11	8.629-344.0	SCREW, M8-1.25 X 25 HHCS GR8.8 ZNPLT	4.000	ST
5	8.629-578.0	SCREW, M8-1.25 X 40 HHCS GR8.8 ZNPLT	2.000	ST
16	8.622-469.0	SPRING, .718OD X 3.41L X .091W	2.000	ST
22	8.634-345.0	SWIVEL CASTER, 3.7"	2.000	ST
28	8.601-064.0	Washer #10 LOCK EXT STAR SS	1.000	ST
15	8.625-940.0	WASHER, .51 THR	8.000	ST
2	8.627-913.0	WASHER, 5/16 SPLT STL ZNPLT	18.000	ST
8	8.617-331.0	WASHER, M6 SPL SS DIN127B	2.000	ST
7	8.622-573.0	WASHER, M6 X 20.5 X 1.6 STL ZNPLT	2.000	ST
3	8.613-728.0	WASHER, M8 FLT STL DIN125A ZNPLT	22.000	ST
14	8.601-072.0	WASHER, M10 FNDR STL ZNPLT	2.000	ST
4	8.629-566.0	WELDMENT, HANDLE BRACE	1.000	ST
27	8.622-598.0	WELDMENT, HANDLE BRKT, LEFT	1.000	ST
26	8.622-597.0	WELDMENT, HANDLE BRKT, RIGHT	1.000	ST
6	8.622-605.0	WHEEL, 9.75" X 1.5"	2.000	ST



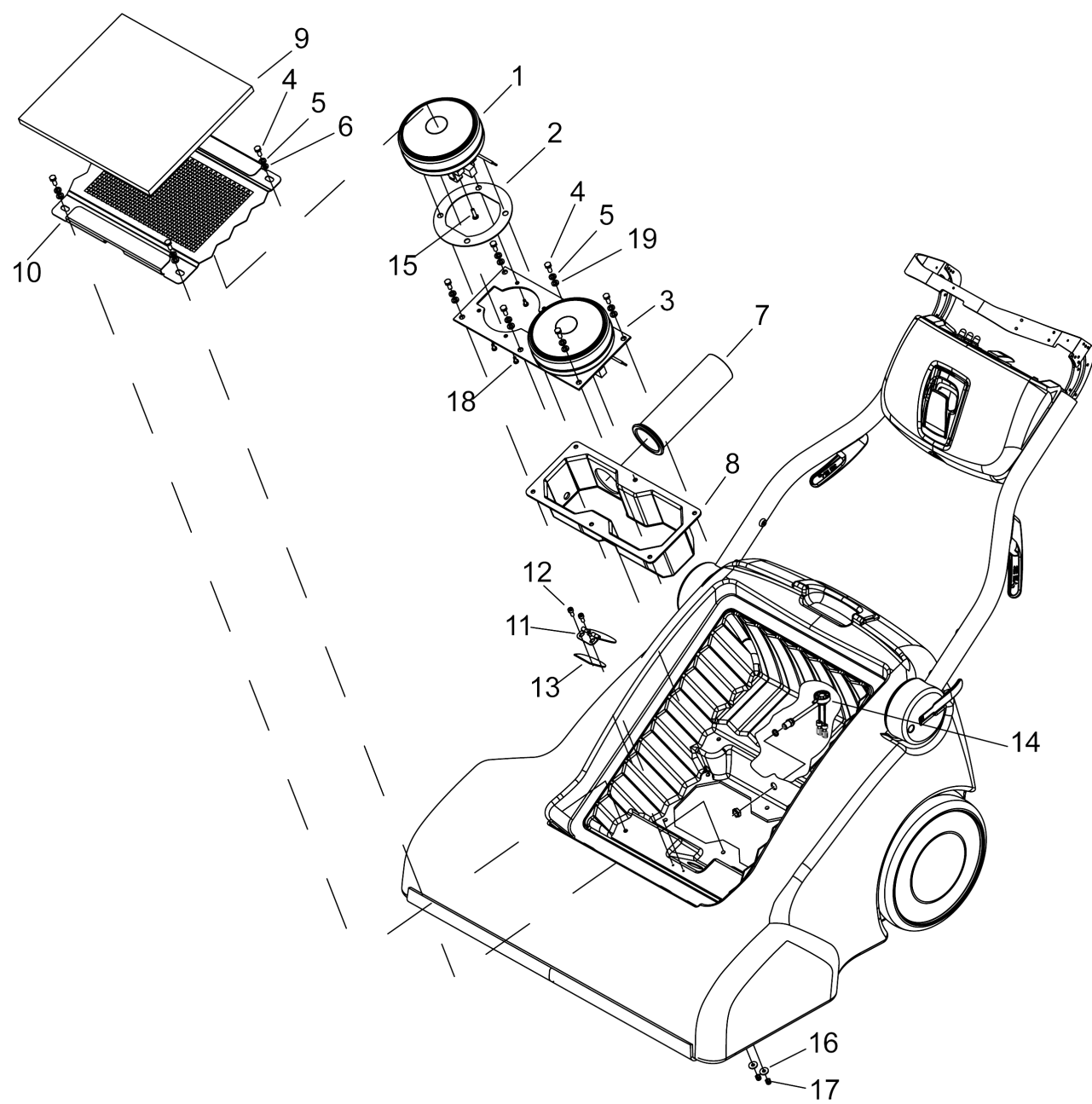
160 Handle

POS	Article no.	Description	Quantity	Unit
18	8.622-418.0	AXLE, PIVOT, HANDLE	1.000	ST
5	8.621-563.0	BRACKET, LEVER, CONSOLE	1.000	ST
11	8.621-646.0	BUSHING, AXLE, LEVER	2.000	ST
20	8.621-656.0	CAP, END, HANDLE, RIGHT	1.000	ST
26	8.619-845.0	CLAMP, 5/16 dia NYLON	1.000	ST
2	8.630-024.0	CONSOLE, NUWAV, TRIM, BLK	1.000	ST
14	8.633-559.0	COVER, HANDLE HUB, LEFT YLW	1.000	ST
7	8.621-819.0	GASKET, CONSOLE, TUBE	2.000	ST
21	8.621-870.0	HANDLE, EXTRUSION, RIGHT	1.000	ST
3	8.621-860.0	HANDLE, MAIN, MOLDED GRIP	1.000	ST
1	8.621-897.0	HOOK, CORD, CONSOLE	1.000	ST
9	8.621-895.0	HOOK, LOWER, CORD	2.000	ST
16	8.622-177.0	LEVER, CAM HANDLE	1.000	ST
19	8.629-466.0	NUT, M14X2 NYLOCK ISO7040	1.000	ST
17	8.629-291.0	PIN, COTTER M6	1.000	ST
13	8.600-865.0	PIN, COTTER RING 1/4 X .041 X .844	1.000	ST
8	8.621-872.0	Retaining bracket left	1.000	ST
15	8.617-302.0	SCREW, M5 X 10 PNHMS SS ISO7045	5.000	ST
4	8.629-340.0	SCREW, M5-.8 X 12 SCHCS GR10.9 ZNPLT	4.000	ST
23	8.629-339.0	SCREW, M5-.8 X 15 SCHCS GR10.9 BLKOX	4.000	ST
10	8.629-341.0	SCREW, M8-1.25 X 15 BTNHCS GR8.8 BLKOX	4.000	ST
22	8.629-337.0	SCREW, M8-1.25 X 70 HHCS GR10.9 ZNPLT	4.000	ST
6	8.622-454.0	SPACER, 8.5 ID X 45L	4.000	ST
25	8.622-450.0	SPACER, HANDLE EXTRUSION	4.000	ST
12	8.622-586.0	WASHER, LEVER, CAM HANDLE	1.000	ST
24	8.622-599.0	WELDMENT, MNTG PLATE, HANDLE	2.000	ST



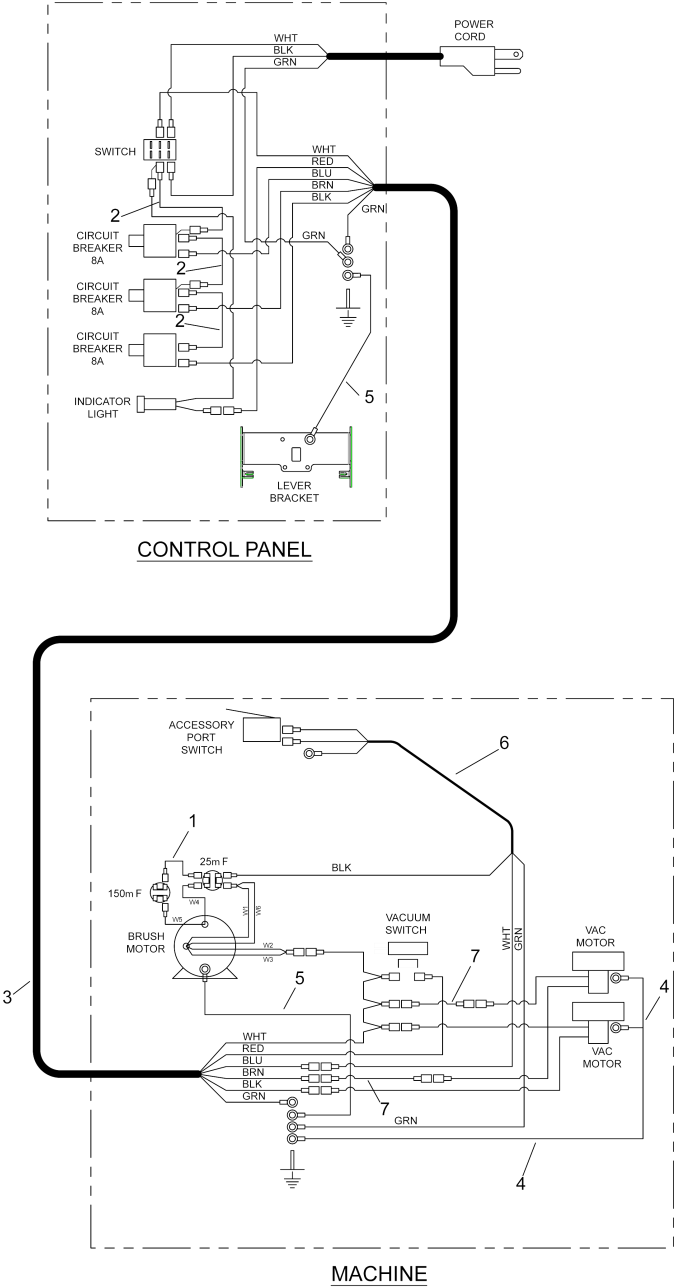
170 Housing

POS	Article no.	Description	Quantity	Unit
10	8.633-557.0	BODY, NUWAV, TRIM, BSLT GRY	1.000	ST
11	8.629-594.0	BRACKET, CLIP, ROTOMOLD	2.000	ST
6	8.621-590.0	BRKT, BODY/HINGE MOUNT	1.000	ST
2	8.629-243.0	CLIP, TREE, FASTENER	11.000	ST
4	8.621-894.0	HINGE, BODY	2.000	ST
1	8.622-223.0	NET, CARGO, MOLDED	1.000	ST
5	8.629-124.0	RAIL, GLIDE, EXTRUDED	1.000	ST
13	8.636-951.0	SCREW, KA50 X 13 PTOVHS STL ZNPLT	2.000	ST
12	8.622-368.0	SCREW, M5-.8 X 10 PNHMS BLKOX	2.000	ST
9	8.627-486.0	SCREW, M8 X 20 HHMS	2.000	ST
14	8.630-387.0	SCREW, M8-1.25 X 20 BTNHCS GR8.8 BLKOX	2.000	ST
3	8.629-759.0	SCREW, M8-1.25 X 25 FLHCS GR10.9 BLKOX	6.000	ST
8	8.627-913.0	WASHER, 5/16 SPLT STL ZNPLT	2.000	ST
7	8.613-728.0	WASHER, M8 FLT STL DIN125A ZNPLT	4.000	ST



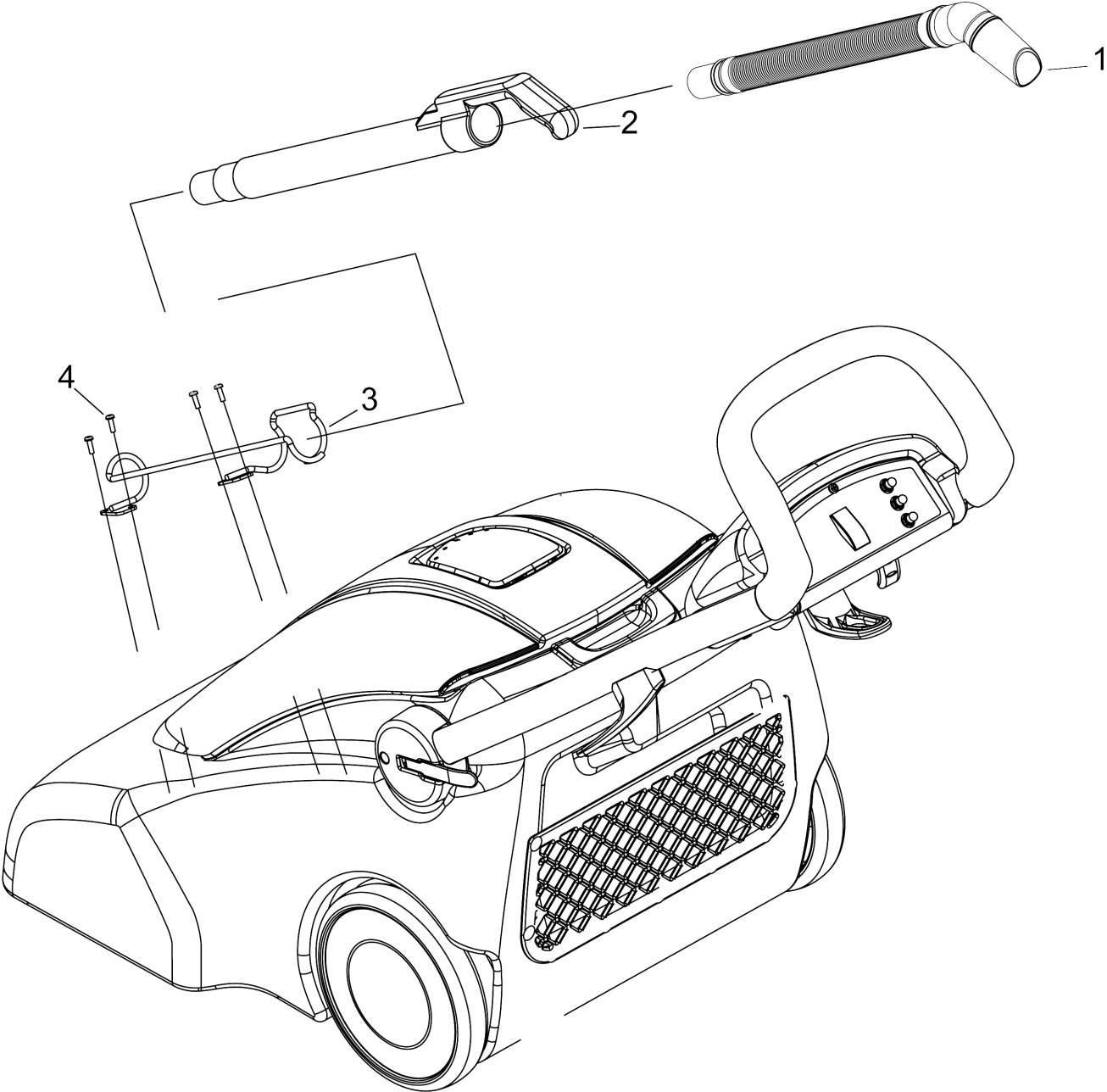
180 Vacuum

POS	Article no.	Description	Quantity	Unit	Remark
8	8.629-012.0	BOX, ENCLOSURE, VAC MOTOR	1.000	ST	
11	8.623-476.0	COVER, ACCESSORY PORT	1.000	ST	
9	8.621-785.0	FILTER, VAC CHAMBER	1.000	ST	
2	8.621-831.0	GASKET, 5.500D X 3.85ID X .06	2.000	ST	
13	8.600-378.0	GASKET, ACCESSORY PORT	1.000	ST	
17	8.602-475.0	NUT, M5X.8 HEX NYLOCK SS DIN985	2.000	ST	
3	8.622-307.0	PLATE, MOUNT, VAC MOTOR	1.000	ST	
10	8.622-396.0	SCREEN, VAC CHAMBER	1.000	ST	
15	8.628-845.0	SCREW, M4.8 X 10 PHTF TYPEB	2.000	ST	
18	8.627-738.0	SCREW, M4.8 X 16 PHTF	8.000	ST	
12	8.629-339.0	SCREW, M5-.8 X 15 SCHCS GR10.9 BLKOX	2.000	ST	
4	8.629-343.0	SCREW, M6-1 X 15 HHCS GR10.9 BLKOX	10.000	ST	
14	8.634-351.0	SWITCH, VACUUM, 250VAC, 15" H2O	1.000	ST	
7	8.629-045.0	TUBE, EXHAUST, VAC CHAMBER	1.000	ST	
1	8.622-551.0	VAC MOTOR, 120V 5.7 1ST TF	2.000	ST	120V ONLY
1	8.622-552.0	VAC MOTOR, 230V 5.7 1ST TF	2.000	ST	230V ONLY
16	8.617-333.0	WASHER, M5 SS ISO7093	2.000	ST	
6	8.627-907.0	WASHER, M6 FLT STL DIN125 ZNPLT	4.000	ST	
5	8.617-331.0	WASHER, M6 SPL SS DIN127B	10.000	ST	
19	8.622-573.0	WASHER, M6 X 20.5 X 1.6 STL ZNPLT	6.000	ST	



190 Wiring Diagram - 120V

POS	Article no.	Description	Quantity	Unit
3	8.621-886.0	HARNESS, MAIN VACUUM	1.000	ST
6	8.621-885.0	HARNESS, SWITCH VACUUM	1.000	ST
2	8.626-840.0	WIRE, 3" BLK/14 76029 X 76050	3.000	ST
1	8.626-690.0	WIRE, 5" BLK/14 76029 X 76029	1.000	ST
4	8.626-729.0	WIRE, 14" GRN/18 76008 X 76011	2.000	ST
5	8.626-821.0	WIRE, 15" GRN/18 76008 X 76008	2.000	ST
7	8.629-554.0	WIRE, JUMPER, 130L X 14GA BLK	2.000	ST



200 Holster

POS	Article no.	Description	Quantity	Unit
1		ASSY, NUWAVE HOSE TOOL	1.000	ST
2	8.614-155.0	EXTENSION TUBE, GRY	1.000	ST
4	8.627-685.0	SCREW, 10 X .625 PHPNHST HL BLK	4.000	ST
3	8.630-510.0	WIRE FORM, HOLSTER, NUWAV	1.000	ST

210 NuWave Serial Numbers

POS	Description	Quantity	Unit
10	SERIAL NUMBER PAGE	1.000	ST