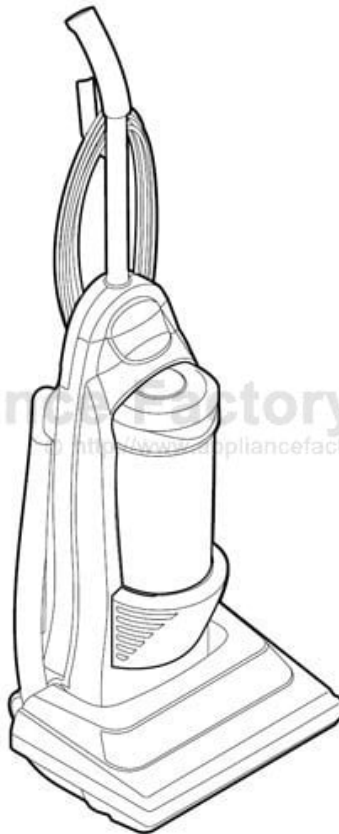


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PANASONIC MC-V413 Owner's Manual

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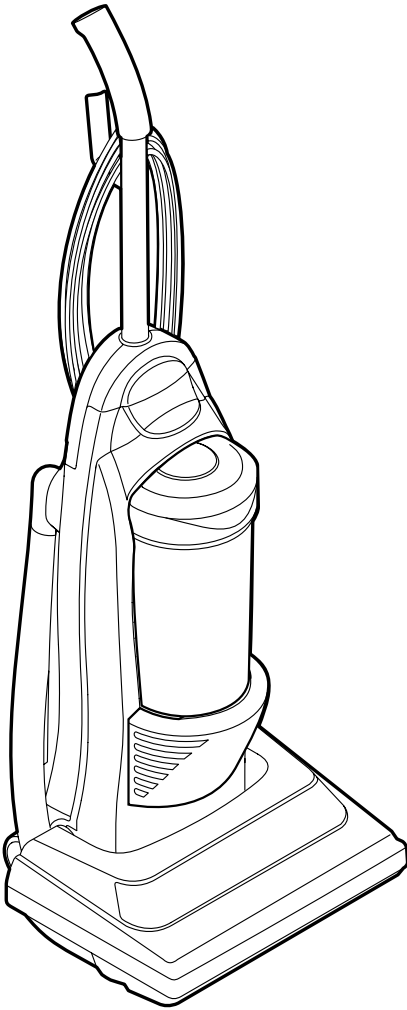
----- Manual continues below -----

Panasonic®

Operating Instructions Manuel d'utilisation *Instrucciones de operación*

COMMERCIAL VACUUM CLEANER
Aspirateur commercial
Commercial aspiradora

MC-V413



**Before operating your vacuum cleaner,
please read these instructions completely.**

*Avant d'utiliser l'appareil, il est recommandé
de lire attentivement ce manuel.*

*Antes de usar su aspiradora, lea
completamente estas instrucciones por favor.*

CONSUMER INFORMATION

Please read **IMPORTANT SAFETY INSTRUCTIONS** on page 5 before use. Read and understand all instructions.

TO OUR VALUED CUSTOMER

We are very pleased to welcome you to the Panasonic family of products. Thank you for purchasing this product. Our intent is that you become one of our many satisfied customers.

Proper assembly and safe use of your vacuum cleaner are your responsibilities. Your vacuum cleaner is intended only for commercial use. The cleaner should be stored in a dry, indoor area. Read the Operating Instructions carefully for important use and safety information.

Special care is required when vacuuming certain types of carpet or floor covering. Always check the carpet or floor covering manufacturer's recommended cleaning instructions before vacuuming.

PLEASE PAY CLOSE ATTENTION TO ALL WARNING AND CAUTION STATEMENTS.

WARNING

WARNING statements are designed to alert you to the possibility of personal injury, loss of human life, and/or damage to the vacuum cleaner and/or personal property if the instructions given are not followed.

CAUTION

CAUTION statements are designed to alert you to the possibility of damage to the vacuum cleaner and/or personal property if the instructions given are not followed.

WARNING

TO AVOID ELECTRICAL SHOCK

Never vacuum damp or wet surfaces or liquids.
DO NOT store machine outdoors.
Replace worn or frayed power cord immediately.
Unplug from outlet when not in use and before servicing.

TO AVOID ACCIDENTS

Except for hand-held cleaners, keep machine on floor - not chairs, tables, steps, stairs, etc.
Store machine promptly after each use to prevent accidents such as tripping over power cord or machine.
Use machine and accessories only in a manner intended by the manufacturer.
The use of an extension cord is not recommended.

IMPORTANT SAFETY INSTRUCTIONS

When using your vacuum cleaner, basic precautions should always be followed, including the following:

Read all instructions in this manual before assembling or using your vacuum cleaner.

⚠ WARNING To reduce the risk of fire, electrical shock, injury:

To reduce the risk of fire, electrical shock, injury:

1. **DO NOT** leave vacuum cleaner when plugged in. Unplug from outlet when not in use and before servicing.
2. To reduce the risk of fire or electric shock - **DO NOT** use outdoors or on wet surfaces.
3. **DO NOT** allow to be used as a toy. Close attention is necessary when used by or near children.
4. Use only as described in this manual. Use only manufacturer's recommended tools.
5. **DO NOT** use with damaged cord or plug. If vacuum cleaner is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to an authorized Panasonic Servicenter.
6. **DO NOT** pull or carry by cord, use cord as a handle, close door on cord, or pull cord around sharp edges or corners. **DO NOT** run vacuum cleaner over cord. Keep cord away from heated surfaces.
7. **DO NOT** unplug by pulling on cord. To unplug, grasp the plug, not the cord.
8. **DO NOT** handle plug or vacuum cleaner with wet hands.
9. **DO NOT** put any objects into openings. **DO NOT** use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
10. Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
11. **DO NOT** pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
12. **DO NOT** use without dust bag and/or filters in place.
13. Turn off all controls before unplugging.
14. Use extra care when cleaning on stairs.
15. **DO NOT** use cleaner to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.
16. **DO NOT** operate cleaner without belt cover properly installed.

SAVE THESE INSTRUCTIONS

Note: Before you plug in your Panasonic vacuum cleaner, make sure that the voltage indicated on the rating plate located at the back of the vacuum cleaner is the same as your local supply.

TABLE OF CONTENTS

CONSUMER INFORMATION	2
IMPORTANT SAFETY INSTRUCTIONS	5
GROUNDING INSTRUCTIONS	10
PARTS IDENTIFICATION	12
FEATURE CHART	13
ASSEMBLY	14
Attaching Handle	14
FEATURES	16
Automatic Self Adjusting Nozzle	16
Edge Cleaning	16
Motor Protector	16
TO OPERATE CLEANER	18
ON-OFF Switch	18
Handle Adjustments	18
ROUTINE CARE OF CLEANER	20
Cleaning Secondary Filter Screen	20
Replacing HEPA Exhaust Filter	22
Dust Bin Cleaning	24, 26, 28
Primary Filter Removal and Cleaning	28
Removing and Installing Lower Plate	30
Replacing Belt	32
Cleaning Agitator	34
Replacing Agitator	34
Agitator Assembly	34
Removing Clogs	36
BEFORE REQUESTING SERVICE	38
WARRANTY	41, 42
WHAT TO DO WHEN SERVICE IS NEEDED	48

GROUNDING INSTRUCTIONS

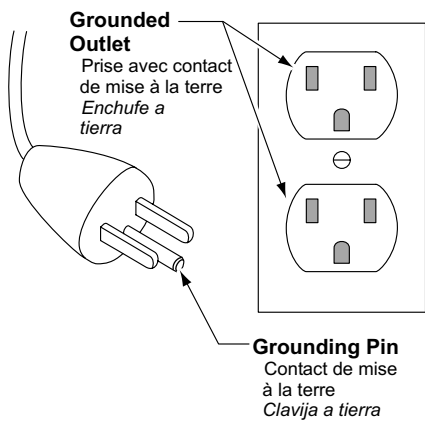


Figure A

This vacuum cleaner 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 vacuum cleaner 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.

⚠ DANGER

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 vacuum cleaner – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This vacuum cleaner is for use on a nominal 120-volt circuit, and has a grounding plug that looks like the plug illustrated in **Figure A**. Make sure that this vacuum cleaner is connected to an outlet having the same configuration as the plug.

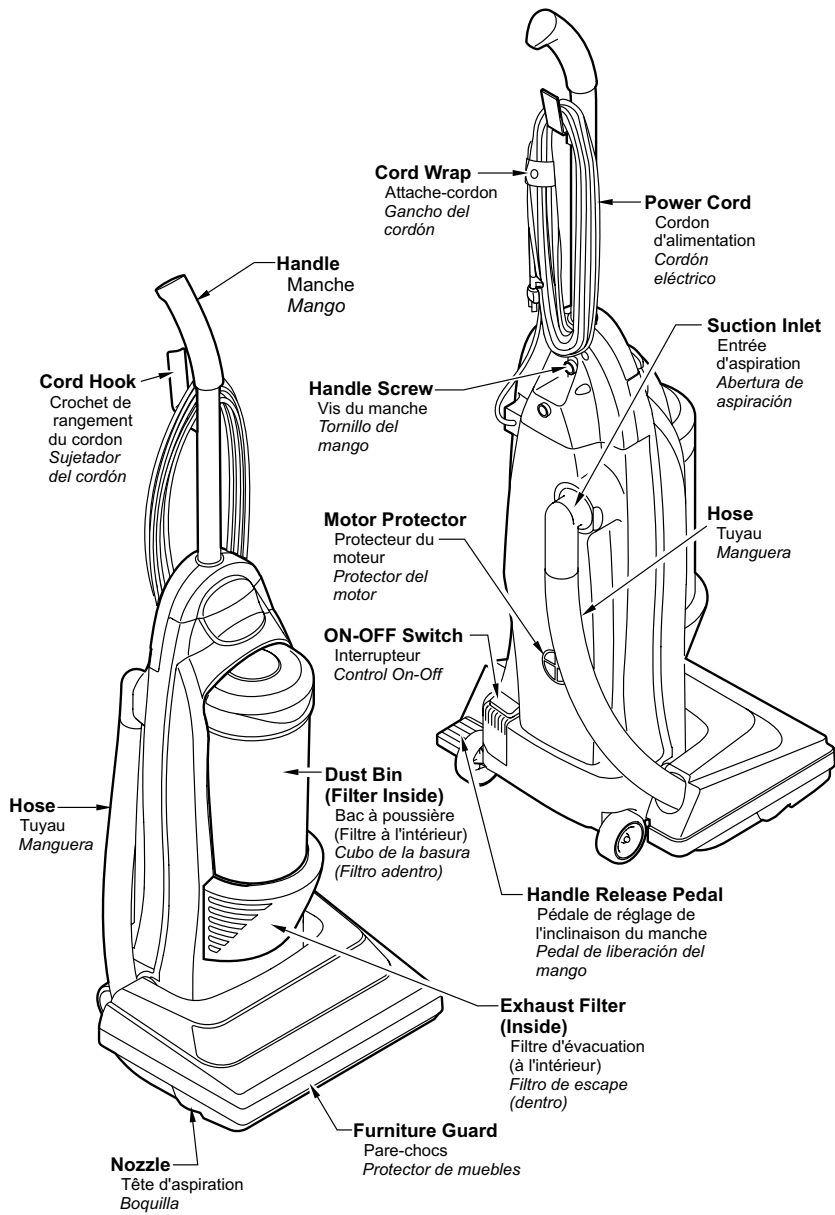
No adapter should be used with this vacuum cleaner.

Note: Before you plug in your commercial vacuum cleaner, make sure that the voltage indicated on the rating plate located at the back of the vacuum cleaner is the same as your local supply.

PARTS IDENTIFICATION

Nomenclature

Identificación de piezas



FEATURE CHART

Power	Motor Protector	Height Adjust	Cord Length
120V AC (60Hz)	Yes	Auto	50 Ft. (15.25m)

Tableau des caractéristiques

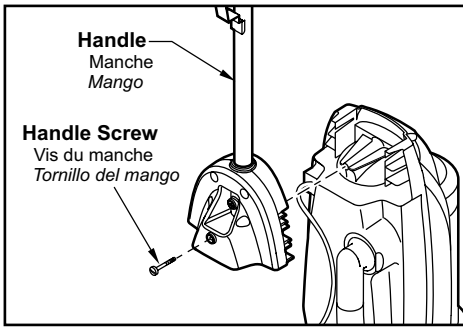
Alimentation	Protecteur du moteur	Réglage de la hauteur des brosses	Cordon d'alimentation
120 V c.a. (60 Hz)	Oui	Auto	15,25 m (50 pi)

Diagrama de características

Voltaje	Protector de motor	Adjust de nivel	Extensión de cordón
120V AC (60Hz)	Si	Auto	15,25 m (50 pi)

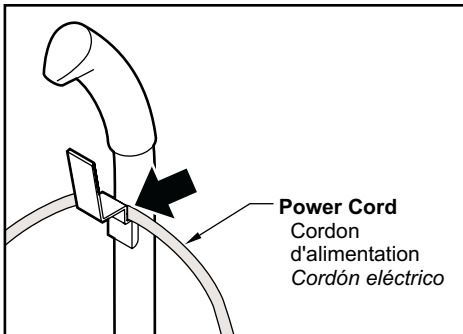
ASSEMBLY

Attaching Handle



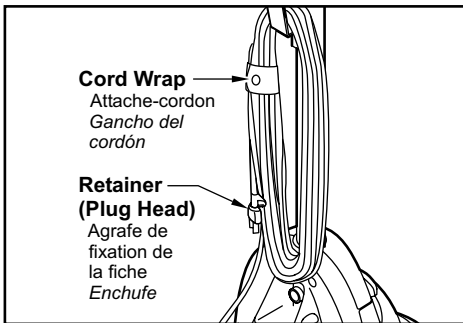
1)

- DO NOT plug in until assembly is complete.
- Remove handle screw.
- Insert handle.
- Insert screw.
- Tighten screw.



2)

- Push power cord into cord clip.

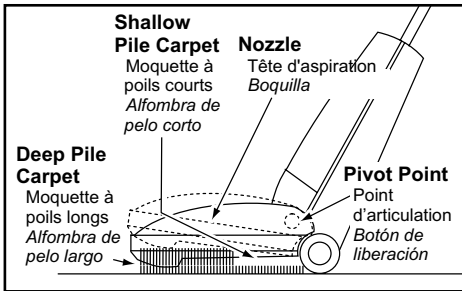


3)

- Wrap power cord around cord hook.
- Secure retainer (plug head) to power cord.

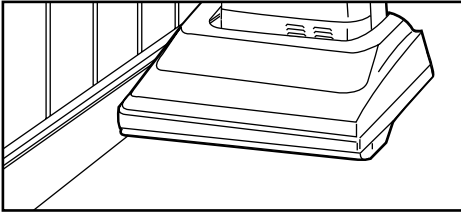
FEATURES

Automatic Self Adjusting Nozzle



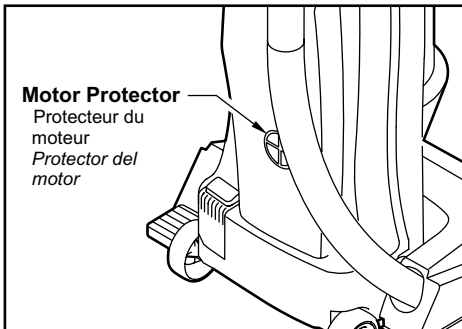
- The nozzle of your upright vacuum cleaner automatically adjusts to any carpet pile height.
- Feature allows nozzle to float evenly over carpet pile surfaces.
- No manual adjustments required.

Edge Cleaning



- Edge cleaning feature enables improved cleaning of carpets near walls and furniture.

Motor Protector

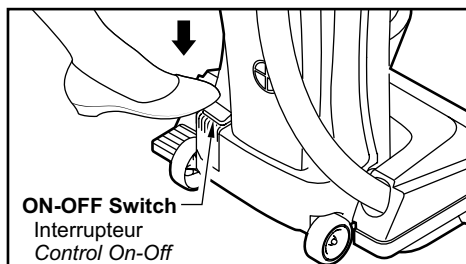


- Automatically opens to provide cooling air to the motor when a clog occurs or when dust bin needs emptying.
- Motor protector may open when using tools.
- If motor protector opens, the vacuum will make a slightly different sound.

Note: Do not block motor protector.

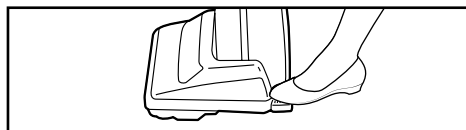
TO OPERATE CLEANER

ON-OFF Switch

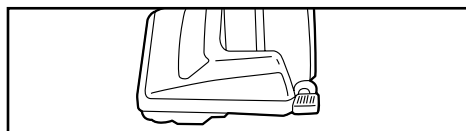


- Ensure ON-OFF switch is OFF.
- Plug the power cord into 120V outlet.
- ON position turns vacuum on.
- OFF position turns vacuum off.

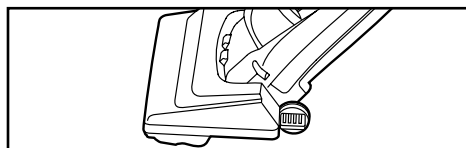
Handle Adjustments



- Step on handle release pedal to change handle position.



- Move vacuum to upright position for storage and use.

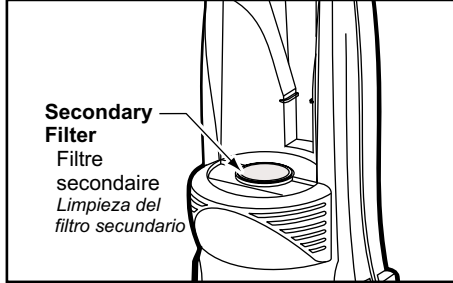


- Move vacuum to middle position for normal use.

ROUTINE CARE OF CLEANER

Performing the following tasks will keep your new Panasonic vacuum cleaner operating at peak performance levels and will ensure these high levels for years to come. Check the **BEFORE REQUESTING SERVICE** section in this manual for recommendations on performing some of these tasks to help solve various problems that may occur.

Cleaning Secondary Filter Screen

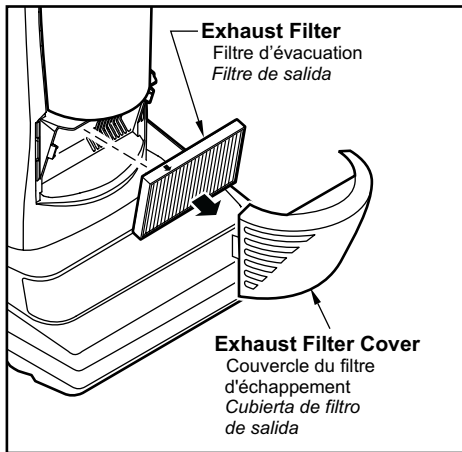


- Check secondary filter screen frequently and clean when dirty.
- Remove the dust bin as outlined in the **DUST BIN CLEANING** section.
- To clean filter screen wipe screen with a dry cloth.

NOTE: Filter screen is not removable.

- Replace the dust bin as outlined in the **DUST BIN CLEANING** section.

Replacing HEPA Exhaust Filter



- The HEPA exhaust filter removes dirt from recirculated air.
- Check filter after emptying dust bin. Replace when dirty.
- To remove, pull out on both sides of the exhaust filter cover.
- Grasp the exhaust filter and pull out to remove.
- Ensure foam edge of the filter is facing towards the vacuum cleaner when placing filter into dust compartment. Push only on filter frame.
- Replace exhaust filter cover by snapping into place.

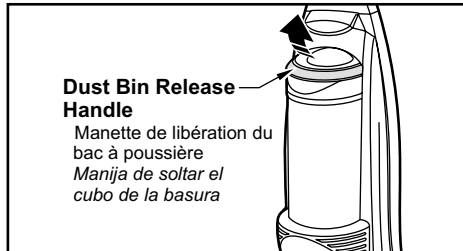
* Filter cannot be cleaned and should be replaced at least once each year.

Dust Bin Cleaning

Always empty the dust bin when dirt level reaches the "MAX FILL" line.

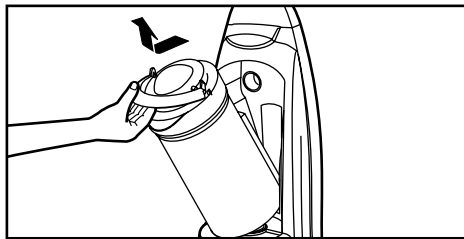
WARNING

Always unplug power cord from electrical outlet before performing any service on vacuum cleaner.



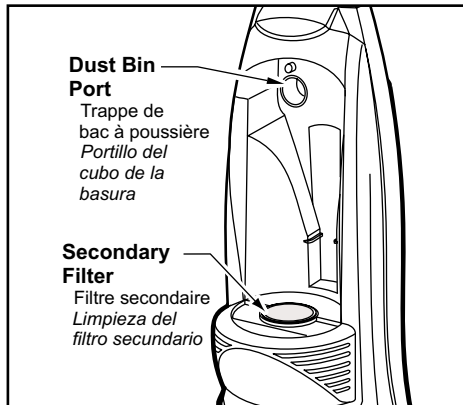
1)

- Lift dust bin handle located at the top of the dust bin.



2)

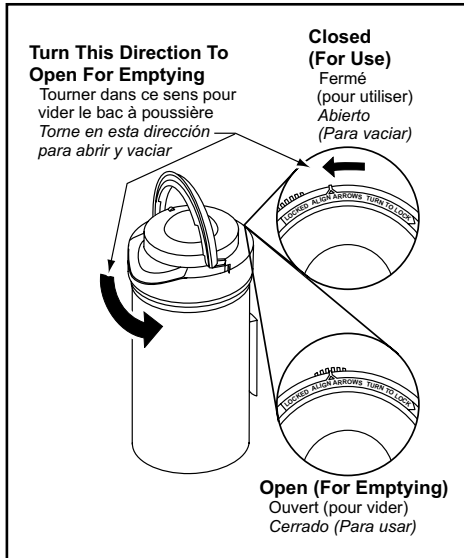
- Pull the handle forward and lift dust bin up and out of the vacuum cleaner.



3)

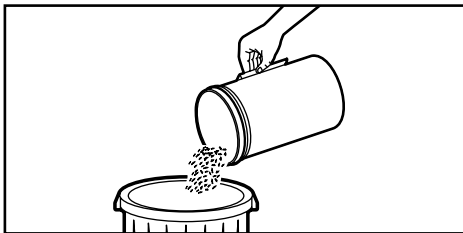
- Remove any clogs that might be located in the dust bin port or the secondary filter.

Dust Bin Cleaning



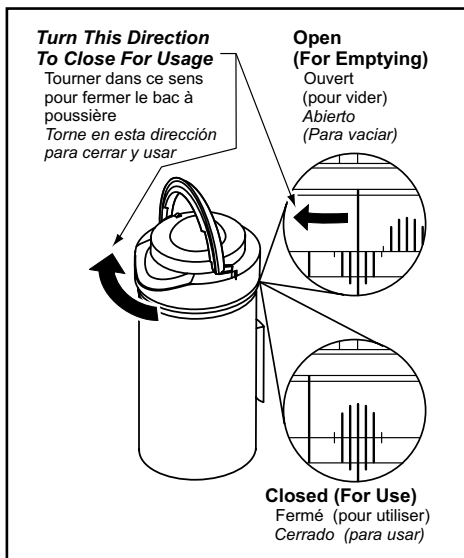
4)

- To empty dust bin rotate dust bin lid assembly counter-clockwise as indicated on the lid and lift off.



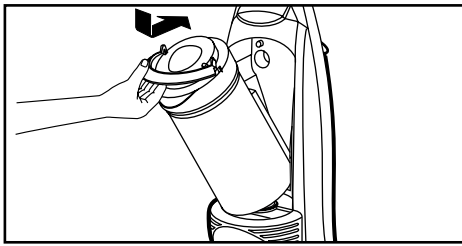
5)

- Pour dust bin contents into a trash container.



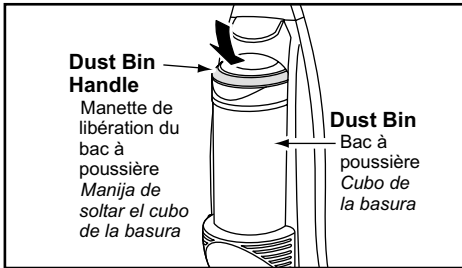
6)

- Place dust bin lid assembly back onto top of dust bin. Align lid marks with bin marks as shown in *Open (For Emptying)*. Rotate lid clockwise while pressing downward so that marks align as shown in *Closed (For Use)*.



7)

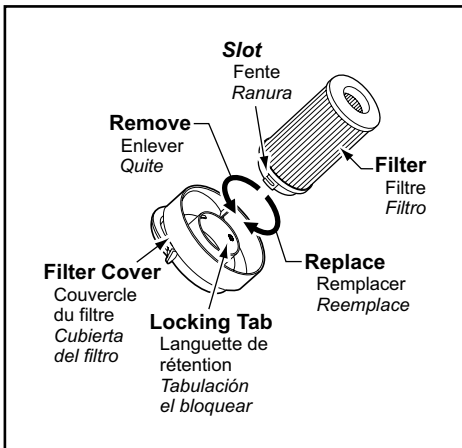
- Place dust bin back into vacuum cleaner by inserting the bottom first and tilt back with the dust bin handle raised.



8)

- Push forward and lower the dust bin handle to lock dust bin in place.

Primary Filter Removal and Cleaning

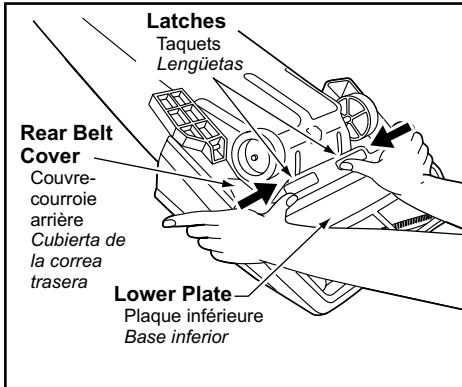


- Check primary filter frequently and clean when dirty.
- Remove the dust bin assembly as outlined in the DUST BIN CLEANING section and empty contents of dust bin.
- Make sure dust bin is empty before filter is removed.
- Grasp primary filter, rotate counter-clockwise and lift out.
- The filter may be cleaned by tapping it on a firm surface or by rinsing it under a faucet. Rinse with water only if needed, do not use detergent or soap. Allow filter to dry 24 hours before putting it back into the dust bin.
- When the cleaning of the filter no longer restores vacuum suction to full power you need to replace the filter.

⚠ WARNING Electrical Shock or Personal Injury Hazard

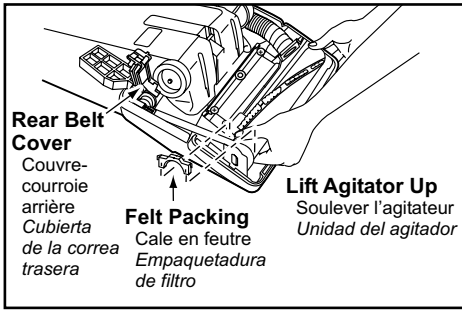
Disconnect the electrical supply before servicing or cleaning the unit. Failure to do so could result in electrical shock or personal injury from cleaner suddenly starting.

Removing and Installing Lower Plate



- Always place paper under nozzle whenever lower plate is removed to protect floor.
- Place handle in down position and turn vacuum over to expose lower plate.
- Release lower plate by pressing two (2) latches inward as shown.
- Remove lower plate and remove any residue that may exist in belt area.
- Reinstall lower plate by hooking front end of lower plate into slots on front of nozzle housing.
- Make sure all wires are routed properly and not pinched.
- Press lower plate into place then push two (2) latches outward.

Replacing Belt

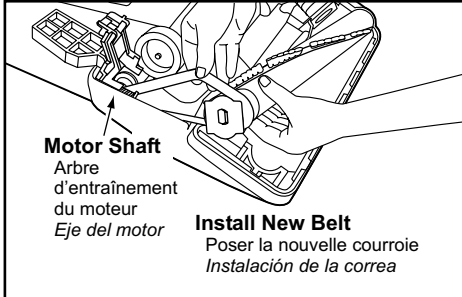


➤ Replace belt whenever a burning rubber smell caused by excessive slippage occurs.

➤ Remove lower plate.

➤ Lift rear belt cover and remove felt packing.

➤ Remove agitator by carefully lifting out.

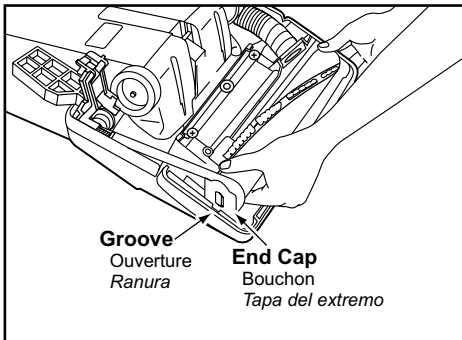


➤ Remove worn or broken belt.

➤ Clean agitator.

➤ Loop new belt (Type UB8 only) around motor shaft and agitator pulley; see illustration for correct belt routing.

➤ Reinstall agitator back into nozzle housing grooves.

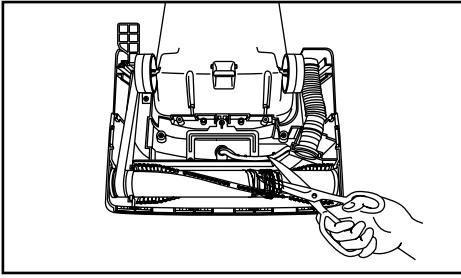


➤ Close rear belt cover and reinstall felt packing.

➤ After reinstalling the agitator, turn it by hand to make sure that belt is not twisted or pinched and that all rotating parts turn freely.

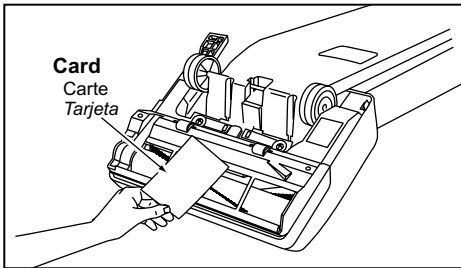
➤ Reinstall lower plate.

Cleaning Agitator



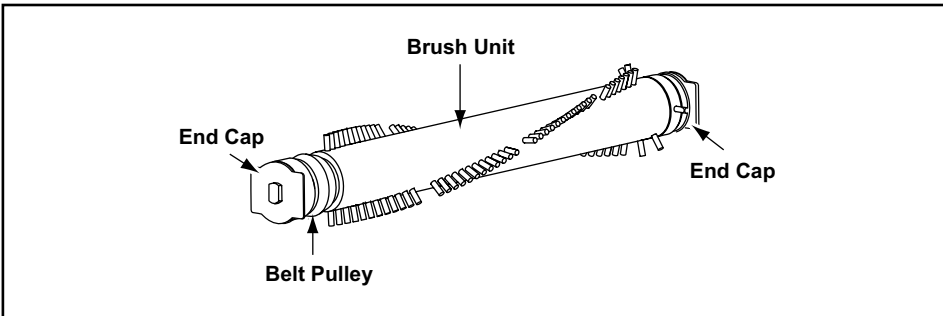
- Clean agitator after every five uses and every time the belt is replaced.
- Remove lower plate.
- Cut off any carpet pile and lint entangled around agitator with a pair of scissors.
- Remove agitator.
- Remove any string or debris located on the end caps or agitator shaft.
- Reinstall agitator and lower plate.

Replacing Agitator

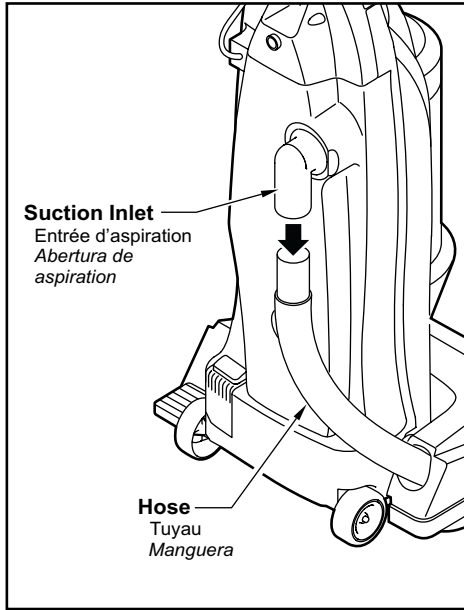


- When the bristles on the agitator are worn so that they do not touch a card held across the lower plate, the agitator should be replaced.
- Remove lower plate and agitator.
- Position belt over belt pulley on the new brush unit.
- Reinstall agitator and lower plate.

Agitator Assembly

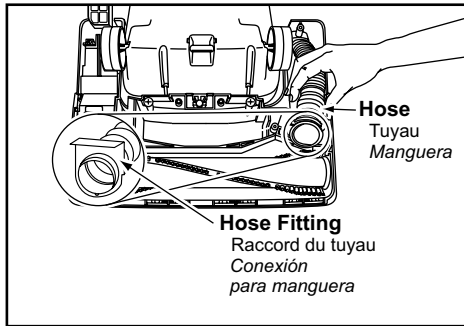


Removing Clogs



The hose located on the back of the vacuum cleaner carries the dirt from the nozzle up to the dust bin. If the hose should become clogged:

- Unplug vacuum.
- Remove hose from suction inlet by twisting and pulling downward.
- Clear any obstructions.
- Remove lower plate.
- Remove hose from nozzle by lifting straight up.
- Inspect hose end and clear any obstructions.
- Reinstall hose and lower plate.



BEFORE REQUESTING SERVICE



WARNING *Electric Shock or Personal Injury Hazard.*

Disconnect the electrical supply before servicing or cleaning the unit. Failure to do so could result in electric shock or personal injury from cleaner suddenly starting.

Review this chart to find do-it-yourself solutions for minor performance problems. Any service needed, other than those described in these Operating Instructions, should be performed by an authorized service representative.

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Cleaner will not run.	<ol style="list-style-type: none">1. Unplugged at wall outlet.2. ON-OFF switch not turned on.3. Tripped circuit breaker/blown fuse at household service panel.	<ol style="list-style-type: none">1. Plug in firmly. Push ON-OFF switch to On.2. Push ON-OFF switch to ON.3. Reset circuit breaker or replace fuse.
Poor job of dirt pickup.	<ol style="list-style-type: none">1. Full or clogged dust bin.2. Broken belt.3. Clogged hose or nozzle.4. Hose not inserted fully.5. Worn agitator.6. Hole in hose.7. Dirty filters.	<ol style="list-style-type: none">1. Clean dust bin.2. Replace belt.3. Clean hose or nozzle area.4. Insert hose.5. Replace agitator.6. Replace hose.7. Clean/Change filters.

WARRANTY

Panasonic Commercial Vacuum Cleaner Limited Warranty

Panasonic Home and Commercial Products Company (referred to as "the warrantor") will repair this product with new or refurbished parts free of charge, in the U.S.A. or Puerto Rico, for one (1) year from the date of original purchase, in the event of a defect in materials or workmanship.

This Limited Warranty Excludes both Labor and Parts for the following items: disposable dust bags, filters, belts, light bulbs, agitator brushes and batteries (if supplied).

Carry-in or mail-in service in the U.S.A. can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Servicenter Directory, or by calling toll free, 1-888-350-9590, or by contacting your selling distributor. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the local Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty performance is rendered.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use and does not cover damages which occur in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, faulty installation, improper operation or maintenance, alteration, modification, power line surge, improper voltage supply, lightning damage, or service by anyone other than a Panasonic Authorized Servicenter, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS:

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the listed address on the back cover.

WARRANTY

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

Commercial Vacuum Cleaner - Ninety (90) days parts and labour

LIMITATIONS AND EXCLUSIONS

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance. Parts such as disposable dust bags, filters, belts, light bulbs and agitator brushes are also excluded from coverage under this warranty.

This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required before warranty service is performed.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

WARRANTY SERVICE

FOR PRODUCT OPERATION ASSISTANCE, please contact:

Our Customer Care Centre: Telephone #: (905) 624-5505
1-800 #: 1-800-561-5505
Fax #: (905) 238-2360
Email link: "Contact Us" on www.panasonic.ca

FOR PRODUCT REPAIRS, please locate your nearest Authorized Servicentre at www.panasonic.ca :

Link : "Servicentres™ locator" under "Customer support"

Panasonic Factory Service:

Vancouver

Panasonic Canada Inc.
12111 Riverside Way
Richmond BC V6W 1K8
Tel: (604) 278-4211
Fax: (604) 278-5627

Toronto

Panasonic Canada Inc.
5770 Ambler Drive
Mississauga ON L4W 2T3
Tel: (905) 624-8447
Fax: (905) 238-2418

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton.

Include details of the defect claimed, and proof of date of original purchase.

WHAT TO DO WHEN SERVICE IS NEEDED

If your Panasonic Vacuum Cleaner needs service, look in the yellow pages of the telephone book under HOME APPLIANCE SERVICE for your nearest Panasonic Services Company ("PASC") Factory Servicenter, or PASC authorized Servicenter, or call, 1-800-211-PANA (7262) toll free to find a convenient servicenter. **DO NOT send the product to the Executive or Regional Sales offices. They are NOT equipped to make repairs.**

If you ship the product

Carefully pack and send it prepaid, adequately insured and preferably in the original carton. Attach a postage-paid letter to the outside of the carton, which contains a description of your complaint. **DO NOT send the product to the Executive or Regional Sales Offices. They are NOT equipped to make repairs.**

PANASONIC CONSUMER ELECTRONICS COMPANY
DIVISION OF PANASONIC CORPORATION OF NORTH AMERICA

One Panasonic Way
Secaucus, New Jersey 07094
World Wide Web Address
<http://www.panasonic.com>

What to do when service is needed Service après-vente (Canada)

WARRANTY SERVICE

For product operation and information assistance, please contact your Dealer or our Customer Care Centre at:

Telephone #: (905) 624-5505

Fax #: (905) 238-2360

Web: www.panasonic.ca

For product repairs, please contact one of the following:

- Your Dealer who will inform you of an authorized Servicentre nearest you.
- Our Customer Care Centre at (905) 624-5505 or www.panasonic.ca
- A Panasonic Factory Servicentre listed on warranty page.

RÉPARATION SOUS GARANTIE

Pour de l'aide sur le fonctionnement de l'appareil ou pour toute demande d'information, veuillez contacter votre détaillant ou notre service à la clientèle au :

N° de téléphone : (905) 624-5505 N° de télécopieur : (905) 238-2360 Site Internet : www.panasonic.ca

Pour la réparation des appareils, veuillez consulter :

- votre détaillant, lequel pourra vous renseigner sur le centre de service agréé le plus près de votre domicile ;
- notre service à la clientèle au (905) 624-5505 ou www.panasonic.ca ;
- un de nos centres de service indiqué sur la page de garantie.

Quando necesita servicio

Si su aspiradora Panasonic necesita servicio, busque el Centro de Servicio Panasonic o un Centro de Servicio PASC autorizado más cercano bajo "Servicio de Electrodomésticos" en las páginas amarillas de la guía de teléfonos o llame gratis al 1-800-211-PANA (7262) para encontrar un centro de servicio conveniente. **No mande el producto a las Executive o Regional Sales Offices. No están equipadas para arreglar estos productos.**

Si manda el producto

Empaquete con cuidado en el cartón original si posible y mándelo prepagado y con seguro suficiente. Ponga una carta con sellos en la que describe su problema con el producto en el exterior del cartón. **No mande el producto a las Executive o Regional Sales Offices. No están equipadas para arreglar estos productos.**

PANAMEX COMPANY
DIVISION OF PANASONIC CORPORATION OF NORTH AMERICA

One Panasonic Way
Secaucus, New Jersey 07094
World Wide Web Address
<http://www.panasonic.com>

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