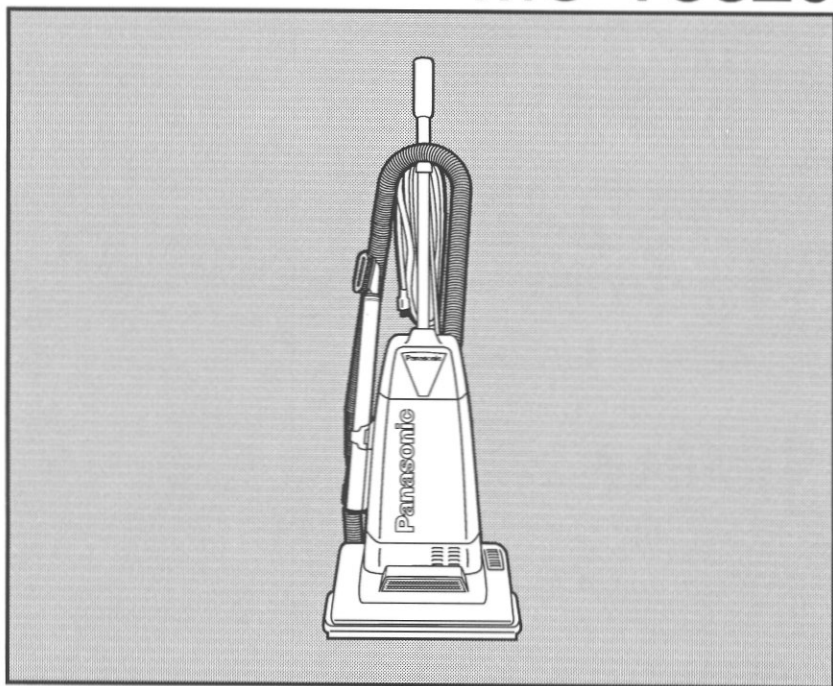


Operating Instructions

VACUUM CLEANER
MC-V5320



Panasonic®

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

CONSUMER INFORMATION

Please read **IMPORTANT SAFETY INSTRUCTIONS** on page 4 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 cleaner is intended only for household use. The cleaner should be stored in a dry, indoor area. Read the Operating Instructions carefully for important use and safety information.

PLEASE PAY CLOSE ATTENTION TO THE WARNING AND CAUTION LABELS THAT ARE FOUND THROUGHOUT THIS MANUAL.



WARNING labels 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 labels 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.



TO AVOID ELECTRICAL SHOCK

Never vacuum damp or wet surfaces or liquids.
Do not store machine outdoors.
Replace worn or frayed power cord immediately.

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.

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IMPORTANT SAFETY INSTRUCTIONS

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

READ ALL INSTRUCTIONS BEFORE USING THIS VACUUM CLEANER

WARNING

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

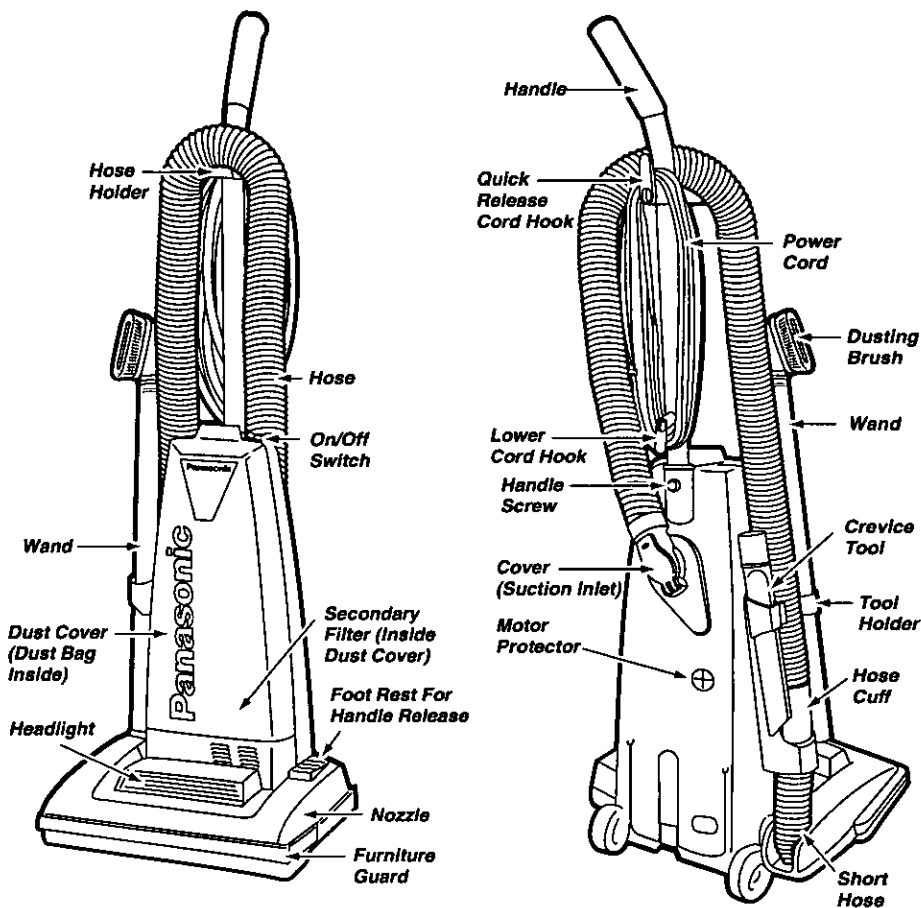
1. Do not leave vacuum cleaner when plugged in. Unplug from outlet when not in use and before servicing.
2. To reduce the risk of fire, electric shock - Do not use outdoors or on wet surfaces.
3. Do not allow to be used as a toy. Close attention is necessary when used by or near children.
4. Use only as described in this manual. Use only manufacturer's recommended attachments.
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 Service Center.
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.

SAVE THESE INSTRUCTIONS

THIS VACUUM CLEANER IS INTENDED FOR HOUSEHOLD USE ONLY

Notice: 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.

PARTS IDENTIFICATION



FEATURE CHART (PANASONIC UPRIGHT VACUUM CLEANER)

FEATURES	POWER	VAC GAUGE	HEADLIGHT	CORD LENGTH (feet)	TOOLS -ON-BOARD
Model					
MC-V5320	120V. AC(60Hz) 12.0 Amps	No	Yes	20	Yes

TO ASSEMBLE CLEANER



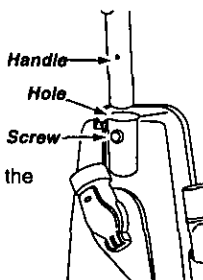
WARNING *Electrical Shock Hazard.*

Do not plug into electrical supply until assembly is complete. To do so could result in electrical shock or injury.

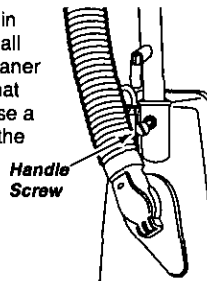
ATTACHING HANDLE TO VACUUM CLEANER

The vacuum cleaner main body and handle are packed separately.

1. The handle screw has been installed for shipping purposes. Please remove the screw before inserting the handle. Insert the handle as shown in the illustration. Ensure that the cord hooks are on the back side of the handle before inserting.

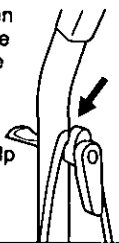


2. Line up the small hole in the handle with the small hole in the vacuum cleaner and insert the screw that you have removed. Use a screwdriver to assure the screw is tightened securely.

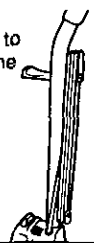


3. There is a recessed area between the upper cord hook base and the handle that is designed to secure the cord during vacuuming.

Always push the power cord down in this recessed area to help keep the cord from hanging near the nozzle and being damaged.

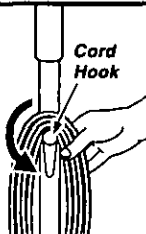


4. Loosely wrap the cord around both cord hooks. Secure the plug head to the cord by pushing the cord into the retainers on the plug head.



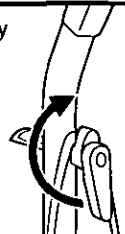
USING THE CORD HOOK

1. The upper cord hook has a quick-release action. To release the cord, rotate the hook downward and the complete power cord will drop off the hook for immediate use.



2. Do not unplug the power cord by pulling on the cord. Grasp the plug head and pull to unplug the vacuum cleaner.

Return the hook to the upright position before attempting to rewind the cord.



ATTACHMENT (Tools-on-Board) ASSEMBLY



CAUTION

Do not get the power cord caught under the agitator when using the vacuum or attachments.

The attachments should be conveniently positioned on the side of the cleaner for easy access. Assemble the hose and attachments to the cleaner as follows:

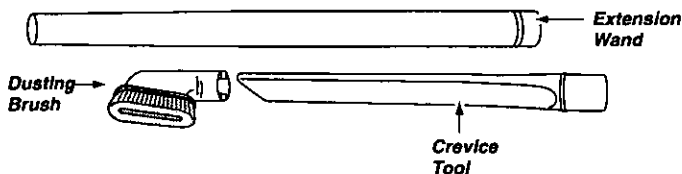
Place the hose on the hose holder in front of the handle. Grasp the end of the hose and push it down over the short hose cuff on the nozzle, twisting as you push down.

Place the extension wand into the front of the tool holder. Store the dusting brush in the end of the extension wand.

Place the crevice tool into the rear slot of the tool holder.

Refer to the illustration in the Parts Identification section for correct attachment storage.

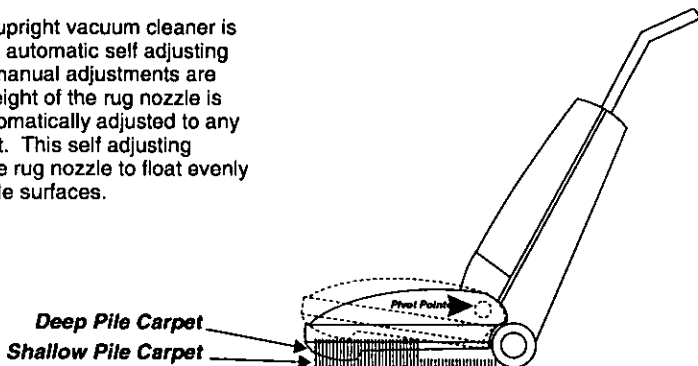
ATTACHMENTS



SPECIAL FEATURES OF CLEANER

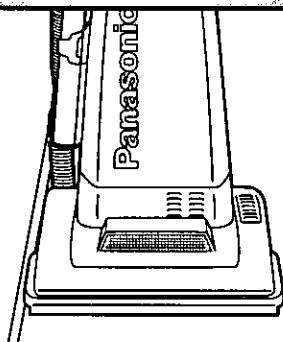
AUTOMATIC SELF ADJUSTING RUG NOZZLE

Your Panasonic upright vacuum cleaner is designed with an automatic self adjusting rug nozzle. No manual adjustments are required. The height of the rug nozzle is instantly and automatically adjusted to any carpet pile height. This self adjusting feature allows the rug nozzle to float evenly over all carpet pile surfaces.



EDGE CLEANING FEATURE

The edge cleaning feature provides for improved cleaning of carpets near walls and furniture.



TO OPERATE CLEANER



CAUTION

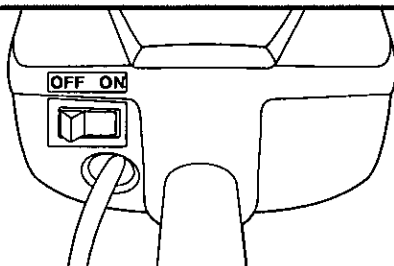
Do not use outlets above counters. Damage to items in the surrounding areas could occur. Be sure the switch is in the off position while plugging the cord in.

POWER CORD

NOTE To reduce the risk of electrical shock, this vacuum has a polarized plug, (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. **DO NOT CHANGE THE PLUG IN ANY WAY.**

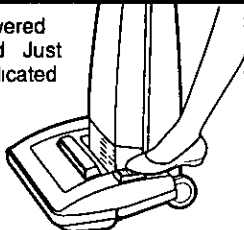
ON/OFF SWITCH

- 1 Plug the power cord into a 120V outlet
- 2 To start the vacuum cleaner, push the switch on the top of the dust compartment to the ON position
- 3 To stop the vacuum cleaner, push the switch on the top of the dust compartment to the OFF position



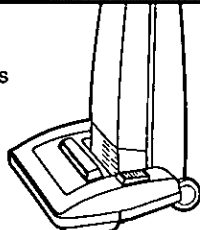
HANDLE ADJUSTMENTS

The handle may be lowered to any position required. Just step on the area as indicated by the illustration and lower the handle as desired.



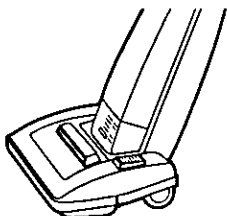
1 Upright position

The handle locks in this position for storage. The handle should always be in an upright position when the cleaning tools are used.



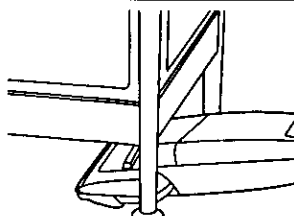
2 Middle position

This position is for normal cleaning.



3. Low position

This position is used for cleaning under furniture.





WARNING

Personal Injury Hazard when Using Attachments

DO NOT place hands or feet underneath the unit when using the attachment tools The agitator assembly begins to revolve rapidly when using attachments

USE OF ATTACHMENTS



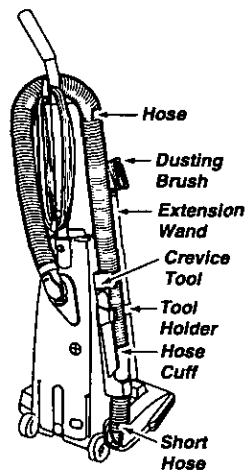
CAUTION

When using the attachments, the agitator begins rotating Do not allow the cleaner to remain in just one place for a period of time, as the agitator may damage the floor surface Avoid placing the cleaner on furniture, the fringed area of rugs, deep pile carpeting, or carpeted stairs The ideal position for the cleaner when using attachments is for the unit to be on a level area with the handle in the full upright position



To remove the hose from the short hose, grasp the hose cuff and twist as you pull up Once the hose has been removed it can be used as is, or the extension wand can be attached for further reach The crevice tool can be attached to the hose or the end of the wand When attaching the extension wand or crevice tool, always twist as you push down If additional reach is required the dusting brush can be attached to the end of the crevice tool

When using the attachments **DO NOT** overextend your reach with the hose as it could tip the cleaner over

To store attachments, place the hose on the hose holder in front of the handle Return the hose to the tool holder twisting as you push down to connect it to the short hose cuff Place the extension wand in the tool holder Store the dusting brush in the end of the extension wand Return the crevice tool to the tool holder



ATTACHMENT USE

ATTACHMENT	CLEANING AREA				
	Furniture*	Between Cushions*	Drapes*	Stairs	Walls
CREVICE TOOL 	X	X	X	X	X
DUSTING BRUSH 	X		X	X	X

*Always clean attachments before using on fabrics Attachments used in dirty areas (such as under a refrigerator) should not be used on other surfaces until they are washed They could leave marks (See the Cleaning Exterior and Attachments section) Use discretion when using attachments as each type of cleaning area may vary (for example, wood vs carpeted stairs)

ROUTINE CARE OF CLEANER

Performing the following tasks will keep your new Panasonic vacuum cleaner operating at peak performance levels and will insure 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.

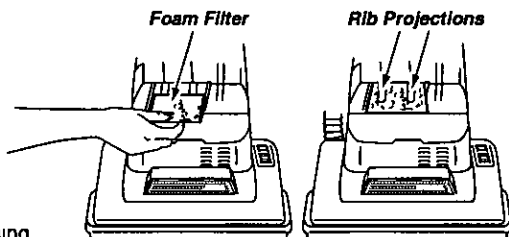


CAUTION

Do not operate the cleaner without the secondary filter. Be sure the filter is properly installed. Failure to do so could result in motor failure.

CLEANING SECONDARY FOAM FILTER

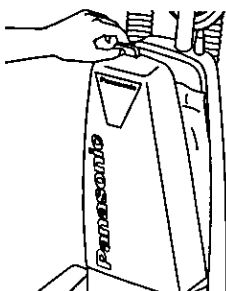
A secondary foam filter protects the motor from dirt. When installing a new dust bag, check the filter. Accumulated dirt in the dust compartment will collect on this filter and may restrict motor performance. When the filter becomes dirty, pull it from the bottom of the dust compartment and clean by rinsing it in water. When dry, slide the filter back into place. Insert the secondary foam filter with a ruler or something flat. It should be fully inserted under the plastic rib projections all the way to the rear compartment wall.



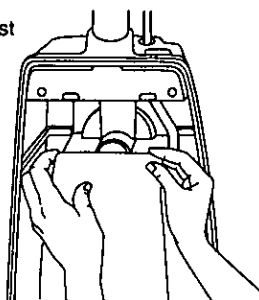
CHANGING THE DUST BAG

Always operate the vacuum with a genuine Panasonic Type U3 or U6 dust bag installed. Panasonic dust bags may be ordered through any authorized Panasonic dealer.

1. Pull outward on the dust cover grip, located on the top front of the dust cover and remove the cover.

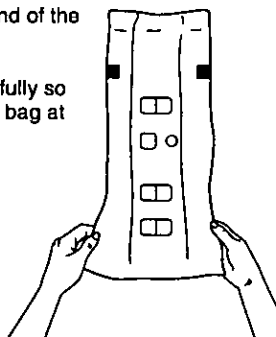


2. To remove the dust bag, grasp the cardboard portion of dust bag and pull it out.

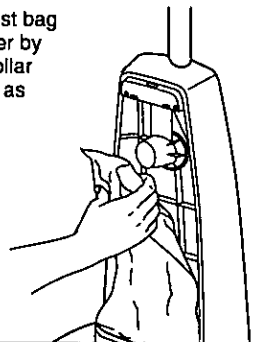


3. Spread out the end of the new dust bag.

NOTE: Pull carefully so as not to tear the bag at the folds.

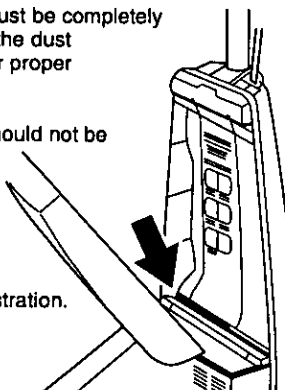


4. Attach the new dust bag onto the bag holder by holding the bag collar and pushing back as illustrated.



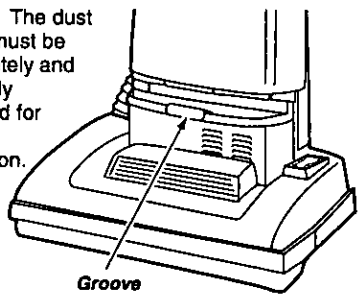
5. The dust bag must be completely installed inside the dust compartment for proper operation.

The dust bag should not be caught between the lower edge of the dust cover and the gasket as indicated by the arrow in the illustration.



6. Reinsert the tab provided on the end of dust cover into the groove on the dust compartment and press the cover into place.

NOTE: The dust cover must be completely and correctly installed for proper operation.





WARNING *Electrical Shock or Personal Injury Hazard.*

When the lower plate is removed for any reason, before reinstalling, be sure that all electrical wires are routed in a manner that prevents them from coming into contact with the lower plate, lower plate screws, or any moving parts. Be sure the wires are not pinched in any way when the lower plate is reinstalled.

REMOVING/INSTALLING THE LOWER PLATE

Before replacing any parts, disconnect the vacuum cleaner from the electrical outlet.

Replacing some of the parts in this section involves the removal and installation of the lower plate. Always place paper under nozzle anytime the lower plate is removed to protect the floor surface.

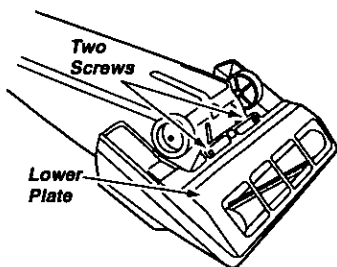
To Remove Lower Plate.

Start by placing the handle in the low position. (See the Handle Adjustments section.) Turn the vacuum cleaner over, exposing the underside. Release the lower plate by removing the two (2) screws that secure the lower plate. Then remove the lower plate. Brush or remove any residue that may exist in the belt area.

To Reinstall Lower Plate

Hook the front end of lower plate into the slots on the front end of the nozzle housing. Then press the lower plate into place and fasten it by replacing the two (2) lower plate screws.

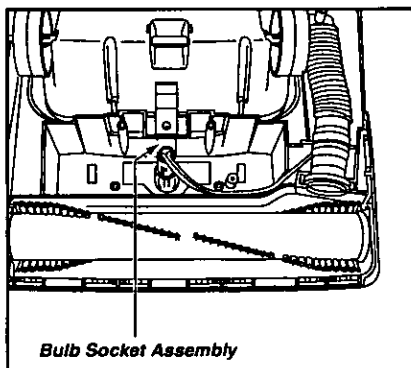
NOTE: To insure maximum cleaning efficiency, the belt should be checked regularly to make sure it is in good condition. Check to see if the belt is stretched, cracked, or if excessive slippage has occurred. Replace it if necessary.



REPLACING THE HEADLIGHT BULB

1. Remove the lower plate using the procedure in the Removing/Installing the Lower Plate section.
2. Grasp the bulb socket, wiggle the socket back and forth while pulling it up out of the nozzle housing. To remove the old bulb, push it in toward the bulb socket while turning counterclockwise, then remove.
3. Install the new bulb by pushing it in toward the bulb socket and turning it clockwise. Use any standard bayonet base appliance bulb rated at 15 Watts.

Caution: Do not use a bulb rated over 15 W. During extended use, heat from the bulb could overheat surrounding plastic parts.



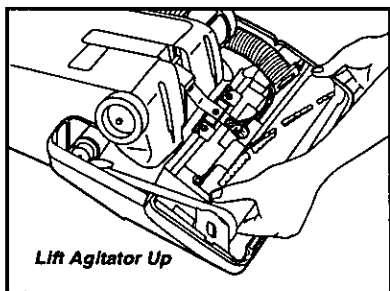
4. Reinsert the bulb socket into the nozzle housing by pushing it back down into the slot. Replace the lower plate as outlined in the Removing/Installing the Lower Plate section.

REPLACING THE DRIVE BELT



WARNING *Personal Injury Hazard.*

Be careful when removing agitator brush assembly. The belt tension is high. Failure to do so could result in personal injury from agitator brush assembly releasing quickly and snapping away.

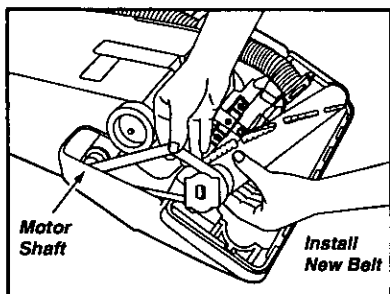


Lift Agitator Up

Unplug and turn the unit over. Remove the lower plate as described in the Removing/Installing the Lower Plate section. Remove the agitator brush assembly (carefully lift it out), and remove the worn or broken belt from the agitator pulley and motor drive shaft.

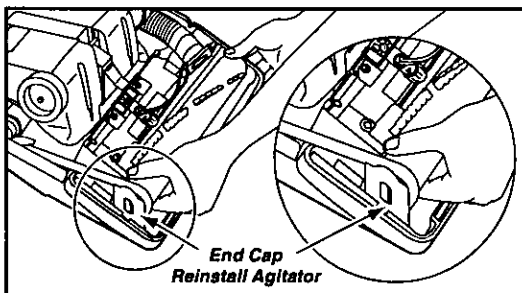
Loop the new belt around the motor drive shaft and then loop it around the agitator pulley. Use only a **Panasonic Type UB drive belt**.

Before reinserting the agitator brush assembly make sure that the end caps are on correctly. (See the illustration in the Replacing the Agitator Assembly section.)



Motor Shaft

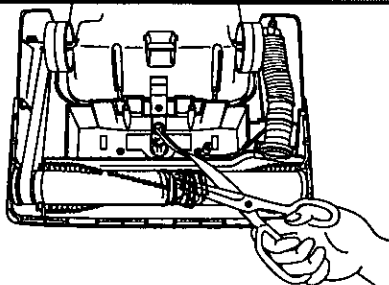
Install New Belt



*End Cap
Reinstall Agitator*

After checking the end caps, reinstall the agitator brush assembly back into the housing grooves. After installing the agitator brush assembly, turn it by hand making sure that the belt is not twisted and all rotating parts turn freely. Replace the lower plate as described in the Removing/Installing the Lower Plate section.

CLEANING THE AGITATOR ASSEMBLY



Switch off the vacuum cleaner and unplug the power cord before cleaning the agitator assembly. In order to keep the cleaning efficiency high, clean the agitator assembly regularly. Remove the lower plate if necessary. See the Removing/Installing the Lower Plate section for the proper procedure.

Agitator assembly - Cut off any carpet pile and lint entangled around the agitator assembly with a pair of scissors as illustrated.



WARNING

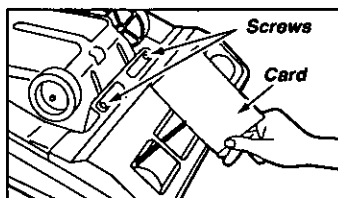
Electrical Shock or Personal Injury Hazard.

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.

REPLACING THE AGITATOR ASSEMBLY

1. When to replace the agitator assembly.

The agitator assembly should be replaced when the brushes are worn. Brushes should be checked by holding a card across the bottom plate (see illustration). If the bristles on the agitator assembly **do not** touch the card you **should** replace the agitator assembly for best cleaning results.



2. How to replace the agitator assembly.

Place the vacuum cleaner handle in the low position. (See the Handle Adjustments section.) Remove the lower plate as outlined in the Removing/Installing the Lower Plate section. After the lower plate is removed, carefully lift up the agitator assembly until it clears both sides of the nozzle housing. While holding the agitator assembly up, remove the belt.

CAUTION: The two end caps may come off along with the two washers as you lift the agitator assembly out. **Do not** lose the two small washers. Look at the exploded view of the agitator assembly below for correct assembly of parts.

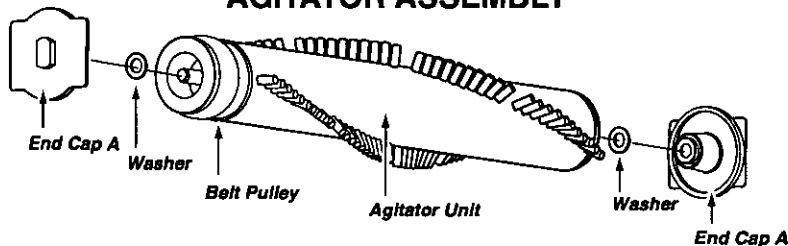
3. To replace the agitator assembly.

Place the belt over the belt pulley on the agitator unit. (**NOTE:** There is a place for the belt to fit on one end of the agitator assembly only.) Replace both washers and end caps (see illustration below for correct assembly). After assembling the belt, washers and end caps place the agitator assembly back into the nozzle housing by aligning each end cap.

After completing the assembly, rotate the brush, turning it by hand to assure that it rotates smoothly and the part is assembled correctly.

Replace the lower plate as outlined in the Removing/Installing the Lower Plate section.

AGITATOR ASSEMBLY



CLEANING EXTERIOR AND ATTACHMENTS

1. Unplug cord from wall outlet. **DO NOT drip water on cleaner.**
2. Clean exterior using a clean, soft cloth that has been dipped in a solution of mild liquid detergent and water, then wrung dry. Wipe dry after cleaning.
3. To reduce static electricity and dust build-up, wipe outer surface of cleaner and attachments.
4. Wash attachments in warm soapy water, rinse and air dry. **Do not clean in dishwasher or clothes washer.**

DO NOT USE ATTACHMENTS IF THEY ARE WET.



CAUTION

Attachments used in dirty areas (such as under a refrigerator) should not be used on other surfaces until they are washed. They could leave marks.

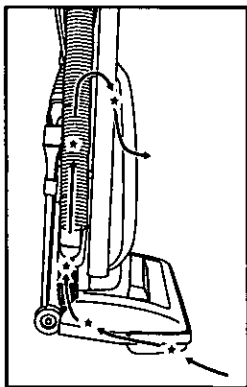
REMOVING CLOGS



WARNING

Electric Shock or Personal Injury Hazard.

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



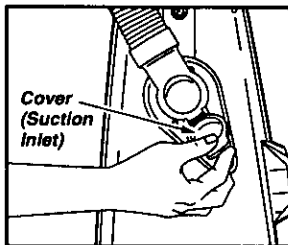
For best cleaning results, keep the air-flow passages clear.

Unplug the power cord from the outlet before checking the airflow passage.

Check each starred area occasionally for clogs.

Disconnect the hose from the short hose and check the hoses for clogging.

Plug in the vacuum cleaner and turn it on. While running the vacuum cleaner with the hose disconnected, stretch the hose in and out to remove the clog.

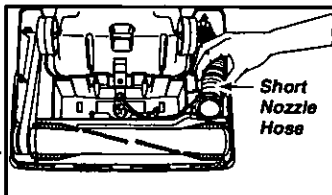


Cover
(Suction
Inlet)

Pull down on the suction inlet cover and check for clogging in this area.

If the clog still exists, turn the vacuum OFF and unplug the power cord.

Turn the vacuum cleaner over, exposing the underside. Remove the lower plate. Remove the short nozzle hose from the housing by lifting it straight up. Inspect the hose end and clear it of any obstructions. Reinstall the short nozzle hose and lower plate. See the Removing/Installing the Lower Plate section for detailed instructions.



Short
Nozzle
Hose

BEFORE REQUESTING SERVICE



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.

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 bag.2. Broken belt.3. Clogged nozzle.4. Hose not inserted fully.5. Worn agitator assembly.6. Hole in hose.7. Dust cover improperly installed.	<ol style="list-style-type: none">1. Change bag.2. Replace belt.3. Clean nozzle area.4. Insert hose.5. Replace agitator assembly.6. Replace hose.7. Properly install dust cover.
Light will not work.	<ol style="list-style-type: none">1. Burned out light bulb.	<ol style="list-style-type: none">1. Replace light bulb.
Dust escapes the paper bag.	<ol style="list-style-type: none">1. Bag improperly installed.2. Bag torn.	<ol style="list-style-type: none">1. Properly install bag.2. Replace bag.

NOTES

WARRANTY

Panasonic Vacuum Cleaner Limited Warranty

MATSUSHITA CONSUMER ELECTRONICS COMPANY OR PANASONIC SALES COMPANY (collectively 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 one (1) year from the date of original purchase in the event of a defect in materials or workmanship. Excluded are the following items which require normal replacement: Disposable Dust Bag, Filters, Belts, Light Bulb, Agitator Brushes and Battery (if supplied).

Carry-in service in the continental U.S.A. can be obtained during the warranty period from a Matsushita Services Company (MSC) Factory Servicenter. To locate an authorized MSC Servicenter call 1-800-545-2672 toll free. Service in Puerto Rico can be obtained during the warranty period by calling the telephone numbers 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 or workmanship which occur during normal use and does not cover damage which occurs 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, alteration modification of the product, or commercial use such as hotel, office, restaurant or rent use of the product, or service by anyone other than an 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.

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 Matsushita Service Company ("MSC") Factory Servicenter, or MSC authorized Servicenter, or call 1-800-545-2672, 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.**

Customer's Record

Model No. _____ Dealer's Name _____

Serial No. _____

Dealer's Address _____

Date of Purchase _____

Consumers requiring product information or operating assistance with a consumer product should contact:

CUSTOMER SATISFACTION CENTER DEPARTMENT 2F-3

50 Meadowlands Parkway
Secaucus, N.J. 07094
(201) 348-9090

**DIAL TOLL FREE
1-800-545-2672**

Matsushita Services Co.

**24 hours a day,
7 days a week**

**MATSUSHITA CONSUMER ELECTRONICS
COMPANY, DIVISION OF MATSUSHITA ELECTRIC
CORPORATION OF AMERICA**

One Panasonic Way
Secaucus, New Jersey 07094

**PANASONIC SALES COMPANY, DIVISION OF
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("PSC")**

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