

---

---

# OPERATING INSTRUCTIONS

Vacuum Cleaner 2000 Series



**RICCAR**®

"The Clean Air System™"

Before operating the unit, please read these instructions completely.

---

---

---

---

## INDEX

Important Safety Instructions .....	2-3
Parts Identification .....	4-5
How To Assemble/How To Operate Vacuum Cleaner .....	6-8
How To Replace The Headlight Bulb, Drive Belt and Brush .....	8-10
How To Clean The Nozzle Hose .....	11

## CUSTOMER'S RECORD

The model and serial numbers of this product may be found on the back side of the unit. You should note the model and serial numbers of your unit in the spaces provided below, and retain this book as a permanent record of your purchase.

Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Date Purchased: \_\_\_\_\_

Your Riccar Vacuum Cleaner is a product of high quality materials and superior workmanship. It has many desirable features, such as a big capacity disposable dust bag, and others. Starting today . . . your new Riccar Vacuum Cleaner will work for you on carpets, floors and for all other cleaning needs in your home. We urge you to read these operating instructions carefully before you use this vacuum cleaner, in order to obtain the full performance and satisfaction that it can offer you.

## SAVE THESE INSTRUCTIONS



Before you plug in your Riccar Vacuum Cleaner, make sure that the voltage indicated on the rating plate located underneath the vacuum cleaner is the same as your local supply.

---

---

## **IMPORTANT SAFETY INSTRUCTIONS**

### **READ ALL INSTRUCTIONS BEFORE USING (THIS APPLIANCE)**

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

### **SAVE THESE INSTRUCTIONS**

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

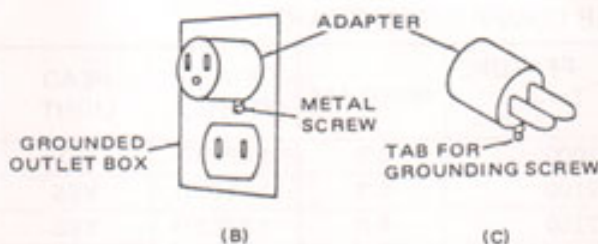
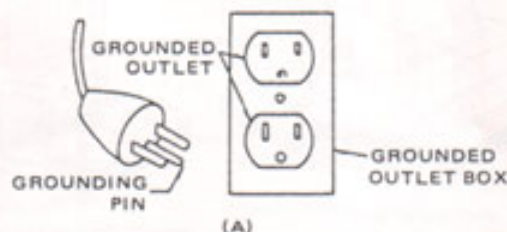
1. Do not leave appliance when plugged in. Unplug from outlet when not in use and before servicing.
2. **WARNING: ELECTRIC SHOCK COULD OCCURE IF USED OUTDOORS OR ON WET SURFACES.**
3. Do not allow to be used as a toy. Close attention is necessary when used by or near children.
4. Use only as described in this manual. Use only manufacturer's recommended attachments.
5. Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.
6. 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 run appliance 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 appliance with wet hands.
9. Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
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 dustbag and/or filters in place.
13. Turn off all controls before unplugging.
14. Use extra care when cleaning on stairs.
15. Do not use to pick up any liquids, flammable or combustible liquids such as gasoline or use in areas where they may be present.

For a grounded appliance: "Connect to a properly grounded outlet only. See Grounding Instructions."

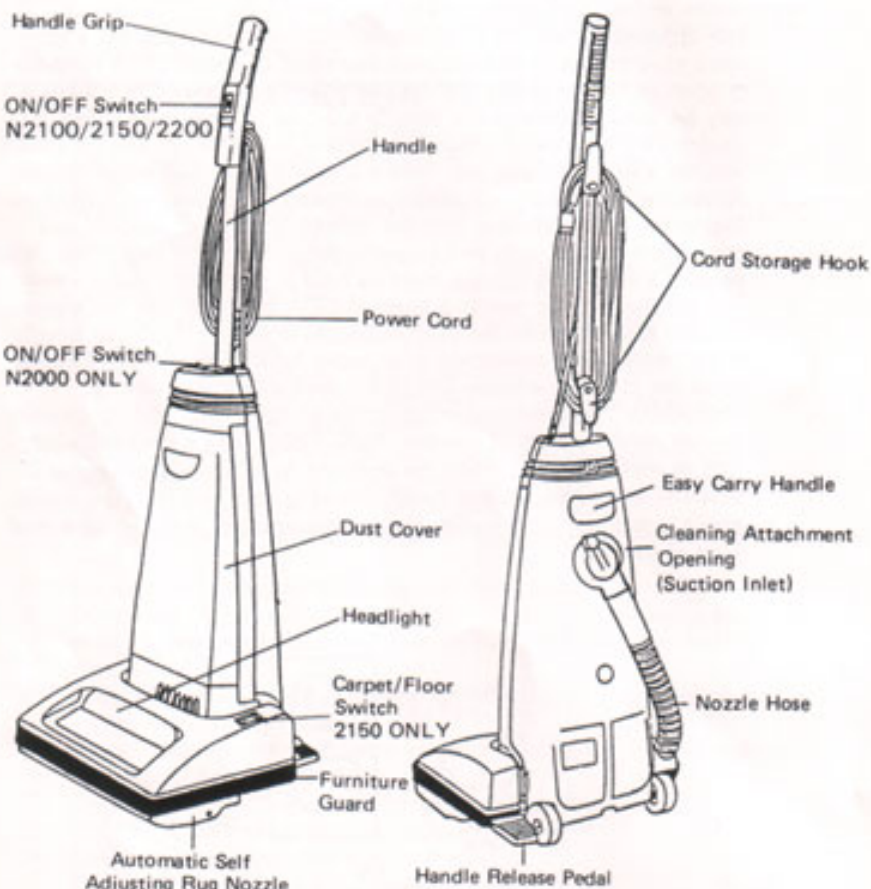
## GROUNDING INSTRUCTIONS

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 plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

1. 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 that looks like the 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 color 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.
  2. This appliance is for use on a nominal 120-volt circuit and has a ground plug that looks like the plug illustrated in sketch (A). Make sure that the appliance is connected to an outlet having the same configuration as the plug. No adapter should be used with this appliance.
- 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.



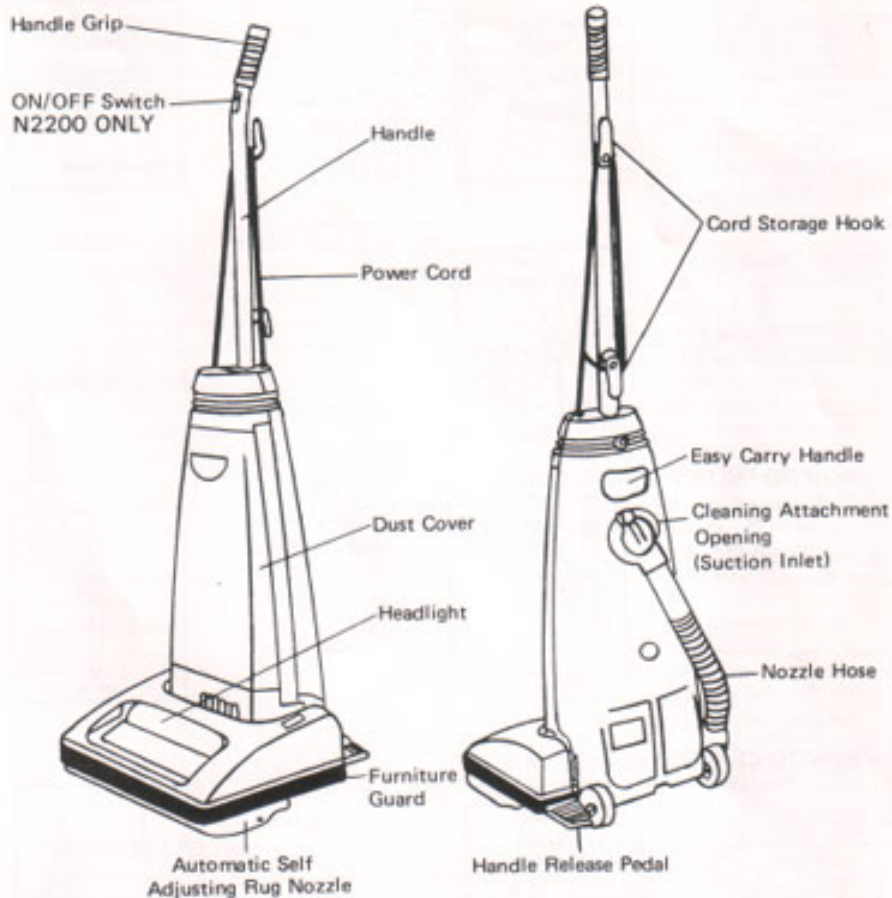
## PARTS IDENTIFICATION



### FEATURE COMPARISON CHART

Model \ FEATURE	INPUT (A)	POWER CONTROL	HEAD LIGHT	CORD LENGTH (feet)
N-2000	6.3	1-SPEED	NO	24
N-2100	6.3	1-SPEED	YES	33
2150	8.0	1-SPEED	YES	33
2200	8.0	1-SPEED	YES	40
N-2200	8.0	1-SPEED	YES	40

## PARTS IDENTIFICATION



## HOW TO ASSEMBLE AND HOW TO OPERATE THE VACUUM CLEANER

### HOW TO ATTACH HANDLE TO VACUUM CLEANER

The cleaner and the handle are packed separately.

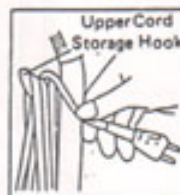
- 1 After first removing the handle screw, insert handle into the hole on top of the vacuum cleaner. Ensure that the switch on the handle is positioned to the front of the vacuum cleaner.



- 2 Line up the small hole on the handle with the small hole on the vacuum cleaner and insert the screw. Be sure the screw is tightened securely.

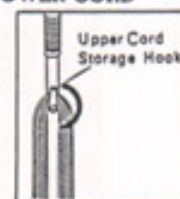


- 3 Turn the upper cord storage hook to the upright position and wind the power cord around the cord storage hooks when storing the vacuum cleaner.



### HOW TO RELEASE POWER CORD

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



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



### HOW TO CHANGE THE DUST BAG

- 1 Always operate the vacuum cleaner with a dust bag installed. Remove the used bag from the bag holder.



- 2 Spread out the end of the new dust bag, as shown by the arrows.



- 3 Simply attach the new dust bag onto the bag holder. To ensure proper cleaning and extended motor life, make sure the secondary bag supporter is always in place.



Secondary Bag Supporter

- 4 Re-insert the tab on the end of the dust cover into the groove on the dust compartment housing. Then press it into place and fasten the dust cover tightly.



### ON/OFF SWITCH FOR N2000 ONLY

To turn the vacuum on, push the switch located on the dust compartment to the 1 position.



2 To turn the vacuum off, push the switch located on the dust compartment to the 0 position.

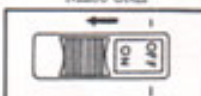


### ON/OFF SWITCH FOR N2100/2150/2200 ONLY

To start the vacuum cleaner, slide the switch on the handle to the ON position.



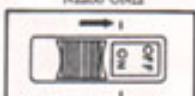
N2200 ONLY



To stop the vacuum cleaner, slide the switch on the handle to the OFF position.

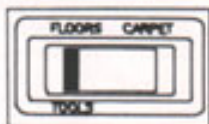


N2200 ONLY



### CARPET/FLOOR SWITCH FOR 2150 ONLY

When vacuuming bare floors or tile or when using attachments, disengage the brush roll by moving the switch located on the nozzle housing to the floor setting.



### HANDLE ADJUSTMENTS

1 The handle of this vacuum cleaner can be set to one of three positions - Upright, Middle or Low. To release the handle, step on the pedal at the left rear corner of the vacuum cleaner.



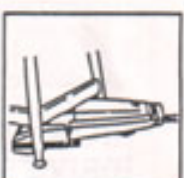
2 UPRIGHT POSITION. Handle locks in this position for vacuum cleaner storage. The handle should always be in an upright position when cleaning tools are used.



3 MIDDLE POSITION. This position is for normal cleaning.



4 LOW POSITION. This position is used for cleaning under furniture.



### SECONDARY FILTER

A secondary filter protects the motor from dirt. Before installing a new bag, check the filter. Accumulated dirt in the dust compartment will be collected on this filter and may restrict motor performance. When the filter becomes dirty, remove it from the bottom of the dust compartment and clean by rinsing in water. When dry, install the filter back in place.



Secondary Filter



### EDGE CLEANING FEATURE

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





## AUTOMATIC SELF-ADJUSTING RUG NOZZLE

Your Riccar 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 length. This self adjusting feature allows the rug nozzle to float evenly over all carpet pile surfaces.

### CLEANING TOOLS (Optional Accessories)



#### DELUXE TOOL KIT

1. Hose assembly
2. Curved wand
3. Extension wand (2 pcs.)
4. Dusting brush
5. Crevice tool
6. Upholstery brush
7. Floor and wall brush



#### STANDARD TOOL KIT

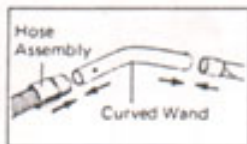
1. Hose assembly
2. Curved wand
3. Extension wand (1 pc.)
4. Dusting brush
5. Crevice tool



How to connect the hose assembly to the vacuum cleaner: Open the lid located on the back side of the vacuum cleaner and insert the plastic end of the hose assembly into the cleaning attachment opening. Then connect the curved wand to the hose assembly as illustrated.



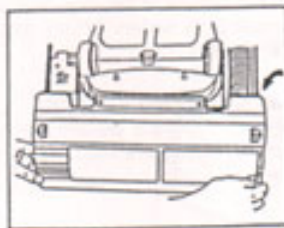
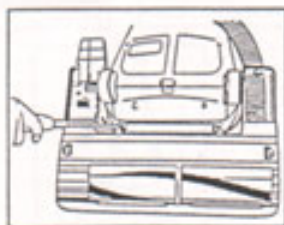
How to connect the tool: You can connect any of the cleaning tools to the end of the metal extension wand(s) or directly to the crevice wand in the following manner. Push the cleaning tool onto the extension wand(s) or curved wand making sure the hole on the tool aligns with the spring button on the curved wand or the extension wand(s) end. To remove the cleaning tool from the extension wand(s) or curved wand, press the spring button and pull off the tool.



## HOW TO REPLACE THE HEADLIGHT BULB, THE DRIVE BELT AND THE BRUSH

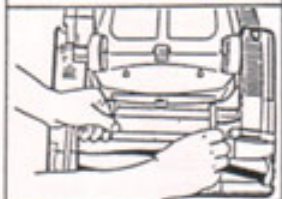
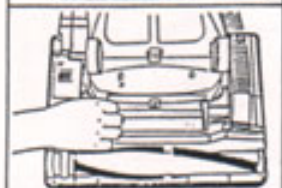
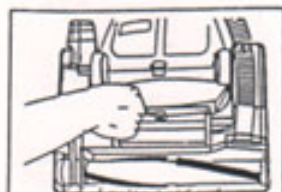
**BEFORE REPLACING ANY PARTS. UNPLUG THE VACUUM CLEANER FROM THE ELECTRICAL OUTLET.**

To replace any of the following parts, place the vacuum cleaner in the low position by using the pedal. Turn the vacuum cleaner over, exposing the underside. Remove the two screws holding the lower plate in place. Now remove the lower plate.



1. HOW TO REPLACE THE BULB (N2100/2150/2200/N2200 only)

Take out headlight assembly retaining screw. Lift out the headlight assembly. Pull off the socket mounting plate connected to the headlight assembly by two tabs. To remove the old bulb, push it down and turn it counterclockwise. To install a new bulb, press it down into the socket and turn it clockwise. Use any standard bayonet base appliance bulb rated 110-120V, 20W. These bulbs are standard and may be obtained from most appliance repair shops. Re-assemble the socket mounting plate to the headlight enclosure, making sure both tabs of the side insulator of the headlight assembly go into the openings located at both ends of the socket mounting plate. Re-insert the complete headlight assembly.



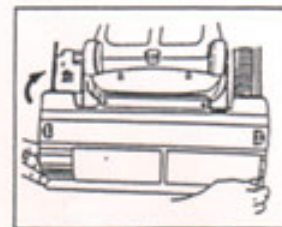
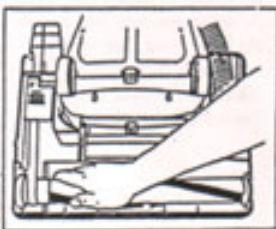
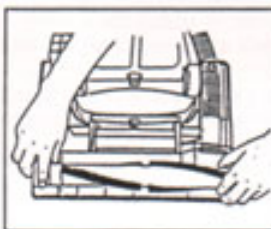
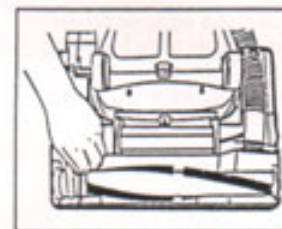
Ensure that the headlight assembly opening rests against the lens of the vacuum cleaner and the side insulators of the headlight assembly are located between the two plastic slots molded within the housing. Replace retaining screw and replace the lower plate as described below.

2. HOW TO REPLACE THE BELT.

Turn the unit over and remove the lower plate as described in the preceding section.

Remove the agitator holder. Take out the agitator assembly and remove belt guard from the agitator pulley and the motor drive shaft.

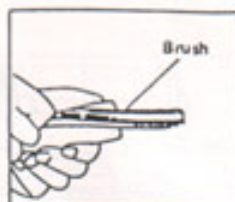
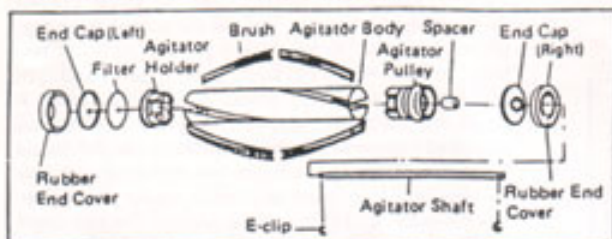
Loop the new belt around the agitator pulley and the motor drive shaft. Re-insert the agitator assembly back into the housing. Turn the agitator assembly by hand, making sure the belt is not twisted and all rotating parts move smoothly. Re-insert the agitator holder. Be sure that the agitator holder is in place before fastening the lower plate.



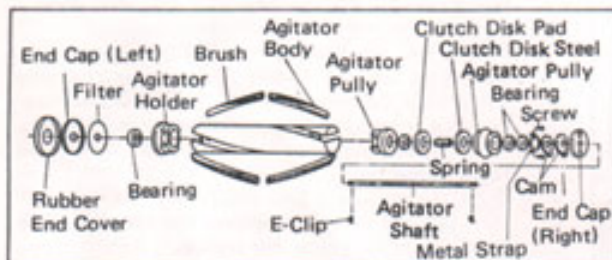
Hook the front end of lower plate to the two ribs at the front end of the housing. Press the lower plate into place and fasten it by two screws.

NOTE: To ensure maximum cleaning efficiency, the belt should be checked regularly to be sure it is in good condition. Check to see if the belt is stretched, cracked, or if excessive slipping is occurring. Replace it if needed.

## EXPLODED VIEW OF AGITATOR ASSEMBLY



(N2000, N2100, 2200, N2200)



(2150)

Brushes should be replaced when they are worn or when the bristle does not touch a card that is held across the nozzle. You should replace all four brushes at the same time in order to maintain good cleaning efficiency.

Remove E-clip first from agitator shaft by using screw driver. Then remove the end cap at right end by holding the agitator assembly. Pull out the agitator shaft from the left end.

**NOTE:** Take care not to deform the agitator shaft.

Now the brushes can be removed easily.

After inserting the new brushes, re-install the agitator pulley and agitator holder, making sure they are completely and firmly inserted. Re-install other parts following the steps in reverse.

Be sure the end caps and filters are in place before fitting the E-clip back into place. Re-install the agitator assembly as described in preceding section.

---

---

## HOW TO CLEAN THE NOZZLE HOSE

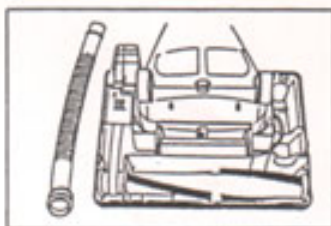
### UNPLUG THE VACUUM CLEANER FROM THE ELECTRICAL OUTLET.

The nozzle hose located on the back of the vacuum cleaner carries the dirt from the nozzle to the dust bag.

If the hose should become clogged:



- 1 Pull out and turn the lid of the cleaning attachment opening and remove the clog with your fingers.



- 2 If the previous step is not enough, pull the power nozzle from the cleaning attachment opening. Turn the unit over and unscrew the lower plate. Slide the hose end out of place and then pull out the entire nozzle hose from the housing. Clear the hose and then re-install it following the steps above in reverse.

**RICAR AMERICA**

14281 FRANKLIN AVENUE  
TUSTIN, CALIFORNIA 92680

021AE0101

VIBRN2000