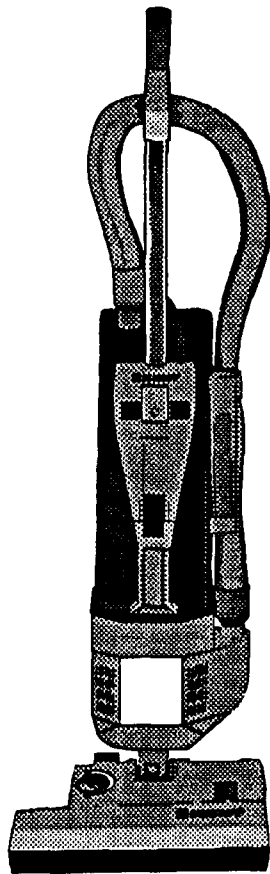


# KENT



MODEL:  
**KC-152**  
**COMMERCIAL**  
**UPRIGHT**  
115 VOLT

**OPERATING,  
MAINTENANCE  
INSTRUCTIONS  
& ILLUSTRATED  
PARTS LIST**

**THE KENT COMPANY**  
P.O. Box 1665  
2310 Industrial Parkway  
Elkhart, IN 46515  
TEL: (219)293-8661,  
(800)334-1083  
FAX: (219)295-8610

OCTOBER 1991

## MACHINE SPECIFICATIONS:

Vacuum Main Switch .....	ON/OFF on Body
Brush Drive Motor Switch .....	Automatic w/Body Release thru Foot Button
Nozzle Width.....	13.75 in. (34.9 cm)
Brush Length .....	13.5 in. (34.3 cm)
Brush Dia. - Bristles.....	2.6 in. (6.6 cm) dia. w/Plastic Core
Brush Speed.....	3450 rpm
Brush Drive .....	Timing Belt
Brush Adjustment .....	Infinite - Low Pile to Shag
Brush Adjustment Setting.....	Green light for proper setting, Red light for too deep setting
Brush Drive Motor.....	150 watt, electronic controlled w/overload protector - 12,000 rpm
Wheels.....	Two 2.0 in. (5.1 cm) dia., plastic, rear Two 1.5 in. (3.8 cm) dia., plastic, front
Base housing.....	Grey injection molded plastic
Vacuum Body .....	Blue injection molded plastic
Bag Filter Area.....	263 sq.in. (1697 sq.cm.)
Bag Volume .....	226 cu.in. (3703 cu. cm.) - .1 bushel
Bag Design .....	Top Fill
Accessories (standard) .....	44 in. (112 cm) x 1.25 in. (3.1 cm) dia. hose with two swivel cuffs 8.5 in. (21.6 cm) x 1.25 in. (3.1 cm) Crevice Tool
Filter - Vac Motor .....	10.8 sq.in. (69.7 sq.cm) - perfumed
Full Bag Sensor .....	Yes, red indicator light
Bag Construction .....	Paper (standard), Cloth/Reuseable (optional)
Power Cord.....	18-3 SJT x 35 ft. (10.7m) Black
Quick-Release Cord .....	Yes
Vacuum Motor .....	Two-Stage, By-Pass - 4.12 in. (10.5 cm) dia. - 74 cfm (2.09 m) air flow @ 1.5 in. (3.8 cm) orifice
Noise Level.....	70db
Operator Handle Weight.....	3.5 lfs. (1.6 kg)
Low Profile-Flat on Floor .....	6.0 in. (15.2 cm) max. height
Handle Height Adjustment.....	4.6 in. (11.7 cm) HI to LO (vertical)
Convertible to Back-Pack .....	Yes with optional straps
Back-Pack Unit Weight w/o .....	9.0 lbs. (4.1 kg)
base, cord and handle	
Plastic Materials.....	Flame retardant, impact resistant and anti-static
Machine Base Width.....	15 in. (38 cm)
Machine Base Length.....	8.7 in. (22.1 cm)
Machine Base Height.....	3 in. (7.6 cm)
Machine Handle Height (vert.) .....	48 in. (122 cm)
Machine Weight w/o Cord.....	16 lbs. (7.26 kg)
Machine Shipping Weight.....	21.5 lbs. (9.75kg)
Machine Shipping Carton .....	11.0 in. x 30.0 in. x 11.0 in. (28cm x 76.2cm x 28cm)
Machine Ratings .....	Volts-120 Amps-7.0 Watts-600 HZ-60

WRITE THE MODEL AND SERIAL NUMBER OF  
YOUR VACUUM IN THE SPACE PROVIDED.  
REFER TO THE DATA PLATE ON CLEANER.

MODEL#: \_\_\_\_\_ SERIAL#: \_\_\_\_\_

RETAIN THIS OWNERS GUIDE FOR  
FUTURE REFERENCE.

## SERVICE INFORMATION

To obtain consistent performance over the life of your vacuum cleaner, read through these instructions and keep them handy for future reference. If you require service contact the dealer from whom the machine was purchased, or an authorized service station. Always refer to your limited warranty for complete service information.

The model, type, and serial number are indicated on the data plate on the bottom of the cleaner. For prompt and complete service information, always refer to these numbers when inquiring about service.

## GENERAL INFORMATION

Before you plug in your cleaner, check the voltage data plate located on the bottom of the cleaner to see if it agrees within 10% of the voltage available (see Data Plate figure). Connect only to a grounded (3-wire) electrical outlet.

The motor in your vacuum is permanently lubricated and sealed. Do not oil the motor at any time.

## CUSTOMER RESPONSIBILITIES

Always use care when operating the machine. Keep clear of moving parts. Do not work on machine with power applied and observe the rules for safe operation. Keep the machine clean. Follow a regular maintenance and check schedule to provide efficient and safe operation. A well cared for machine will last longer and operate more efficiently. Always be careful for yourself and for others.

## IMPORTANT SAFEGUARDS

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

READ ALL INSTRUCTIONS BEFORE USING THIS VACUUM CLEANER

## WARNING

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

- Do not use outdoors or on wet surfaces.
- Do not leave vacuum cleaner when plugged in. Turn off the switch and unplug the electrical cord when not in use and before servicing.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Use only as described in this manual. Use only manufacturer's recommended attachments.
- 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 a service center before using.
- 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 vacuum cleaner over cord. Keep cord away from heated surfaces.
- Connect to a properly grounded outlet only (refer to Grounding Instructions).
- Do not use extension cords or outlets with inadequate current carrying capacity.
- Turn off all controls before unplugging.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Do not handle plug or vacuum cleaner with wet hands.
- 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 airflow.
- This vacuum cleaner creates suction and contains a revolving brushroll. Keep hair, loose clothing, fingers, and all other parts of body away from openings and moving parts.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- Do not use without dust bag in place.
- Belt pulleys can become hot during normal use. To prevent burns, avoid touching the belt pulley when servicing the drive belt.
- Use extra care when cleaning on stairs.
- Do not use to pick up flammable or combustible liquids such as gasoline, or use in areas where they may be present.
- Store your cleaner indoors in a cool, dry area.
- Keep your work area well lighted.

- Unplug electrical appliances before vacuuming them.
- Beater brush may restart unexpectedly - to avoid risk of injury disconnect from supply before servicing

## SAVE THESE INSTRUCTIONS

### Ground Instructions

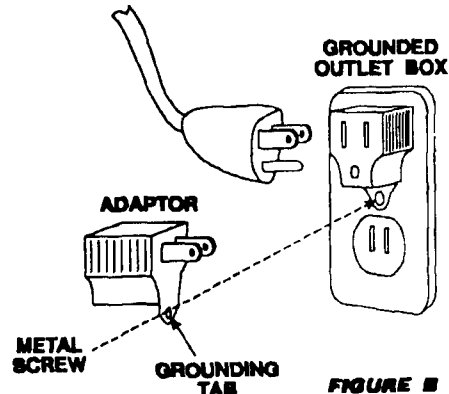
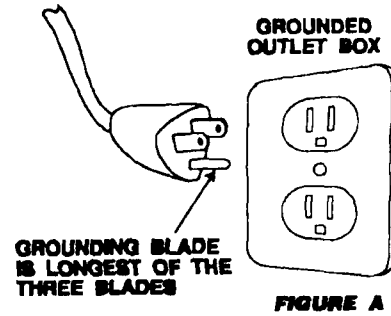
This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

## DANGER

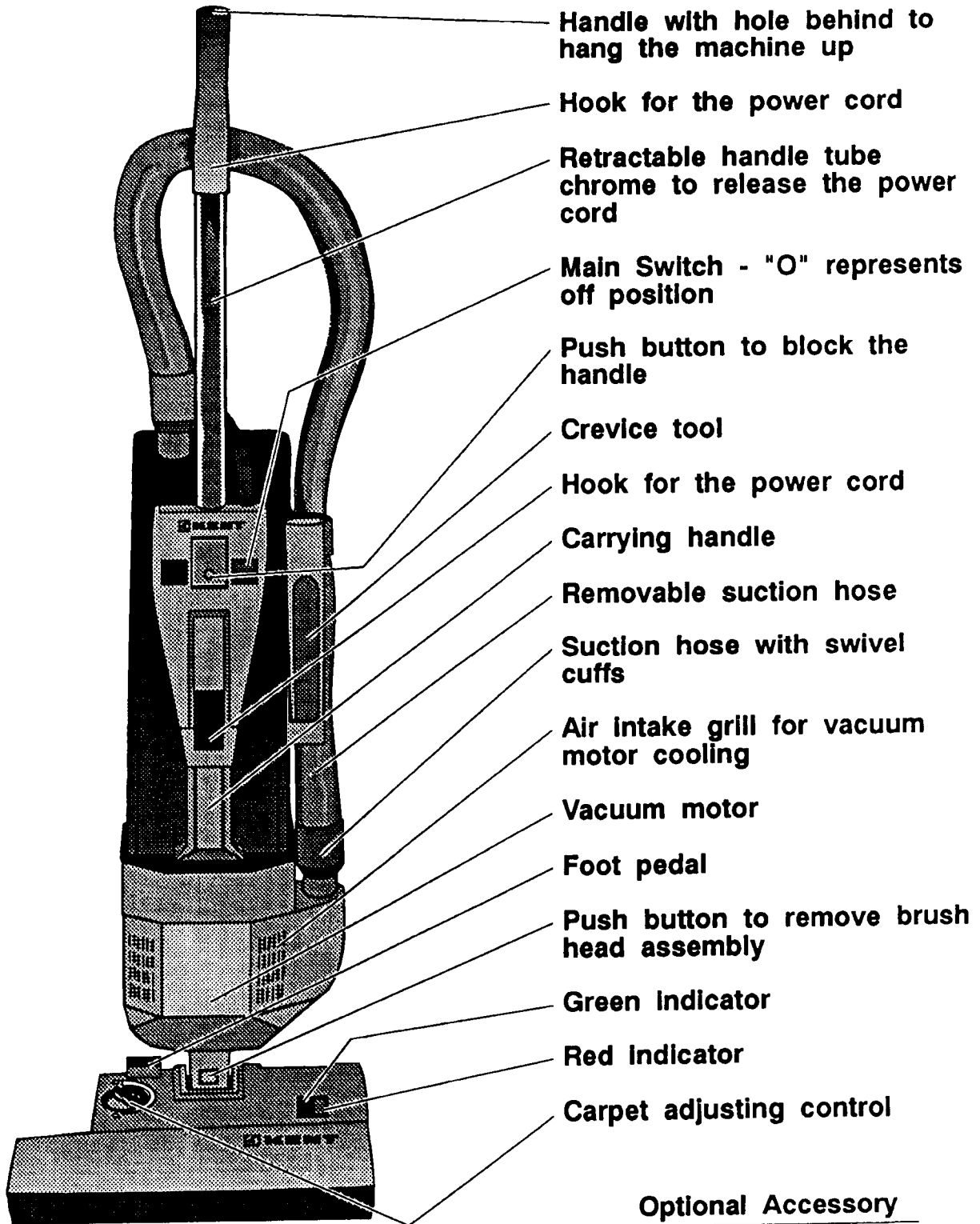
Improper connection of an equipment grounding conductor can result in risk of electric shock. Check with qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance. If it will not fit the outlet, have proper outlet installed by a qualified technician. This appliance is for use on a nominal 120 volt circuit and has a grounding plug that looks like the plug illustrated in Figure A. A temporary adaptor which looks like the adaptor illustrated in Figure B may be used to connect this plug to a two pole receptacle, as shown, if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet, Figure A, can be installed by a qualified electrician. The green colored rigid ear, lug, or the like extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by a metal screw.

## GROUNDING INSTRUCTIONS

This vacuum should be grounded while in use to protect the operator from electrical shock. The vacuum is equipped with a 3-conductor cord and a 3-prong grounding type attachment plug cap to fit the proper grounding type receptacle. Be sure to secure the grounding adaptor to the outlet box using the adaptor tab and the screw from the outlet box. Use only 3-wire extension cords which have 3-prong grounding-type plugs and 3-prong receptacles that accept the appliance's plug. Always replace or repair damaged cords.



# TWO MOTOR UPRIGHT VACUUM FEATURES



Handle with hole behind to hang the machine up

Hook for the power cord

Retractable handle tube chrome to release the power cord

Main Switch - "O" represents off position

Push button to block the handle

Crevice tool

Hook for the power cord

Carrying handle

Removable suction hose

Suction hose with swivel cuffs

Air intake grill for vacuum motor cooling

Vacuum motor

Foot pedal

Push button to remove brush head assembly

Green Indicator

Red Indicator

Carpet adjusting control

Optional Accessory

P/N 16604 Tool Kit

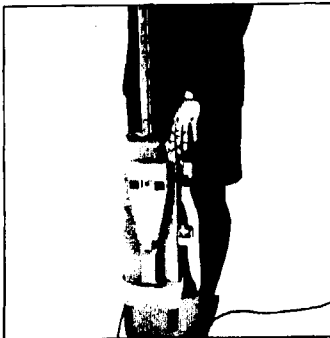
## INTRODUCTION

Your new Professional By-Pass Vacuum Cleaner is a wise investment. As a result of product development this equipment has quality, durability, and consistency of performance built into it and properly treated will give many years of service.

You will get the best use from your Cleaner if you read the user instructions and familiarize yourself with the safeguards and operating details. If you have any special questions, write or phone us and we will be glad to help you.

To avoid any delay in assisting you, please always quote the machine model (found on rating plate) and serial number.

## TO PREPARE THE MACHINE FOR USE



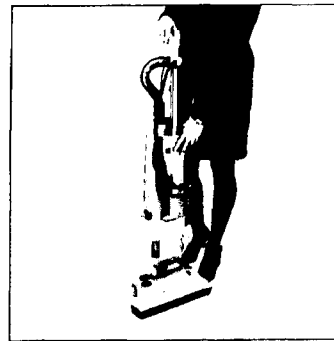
1

Insert the handle in the appropriate place and push until the push-button reaches the stop.



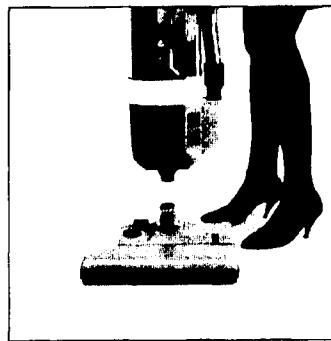
2

Insert the flexible vacuum hose in the two holes provided. Then clip hose into brackets on side of machine body and at the top rear of the handle. The cable should be stored around the hooks on the front of the plastic handle and front of the machine after use.



3

By depressing the button and pushing the handle down at the same time, you can quickly release the wound-up cable. In this way you can reduce height in case of transport.



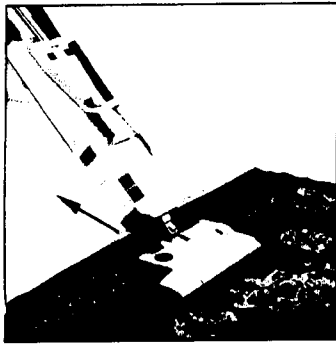
4

To fit the cleaning head first depress the button on it, then plug it into the bottom of the machine body with a light pressure.



5

The motorized cleaning head is fitted with a micro switch, which automatically switches the unit off when it is in the upright position. To operate depress the foot pedal and swivel the machine body backwards. The green light on the head will illuminate as it begins to operate. This will also ensure that when the accessory hose is being used (with the machine upright) the carpet brush is not rotating.



6

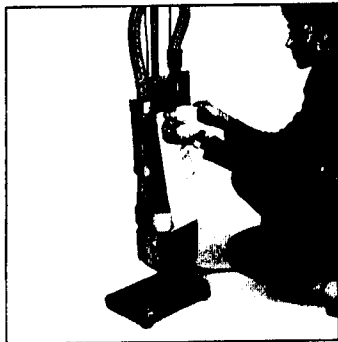
In case of fringed carpets the machine must be used from the center to the outside only. With one color carpet or those whose weave have a tendency to form lines, it is advisable to follow the direction of the material to get the best surface appearance.

## **CHANGING THE PAPER BAG AND CLEANING THE FILTER**



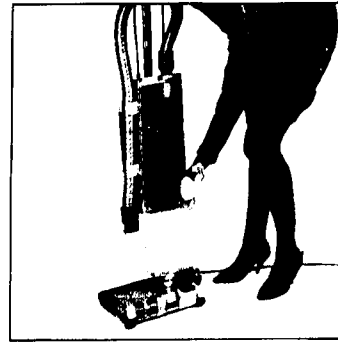
7

Open the cover by pushing in the catch at the top.



8

Take out the paper bag by holding the top and pulling down then out. The bag should be changed whenever the bag-full indicator lights up. To replace bag follow diagram printed on it. Be sure to insert two fingers into aperture in bag to open it out.



9

It is advisable to wash the foam filter after each second or third change of the paper bag. To do this first slide out and open the filter carrier. The air freshener may be changed at the same time. Remove the impregnated felt and replace.



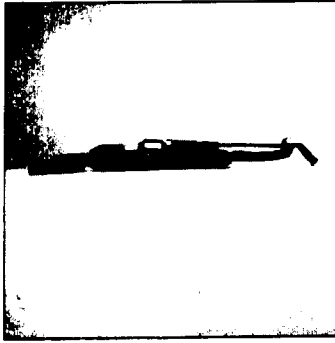
10

The bag-full indicator light is designed to also come on if the suction hose is blocked. In this case, remove the obstruction after taking off the suction hose as shown.



11

The flexible hose ensures easy cleaning for high surfaces such as desks and curtains when used with the crevice tool or optional accessories.



**12**

The ultra low profile of the head assembly ensures easy cleaning under low furniture.



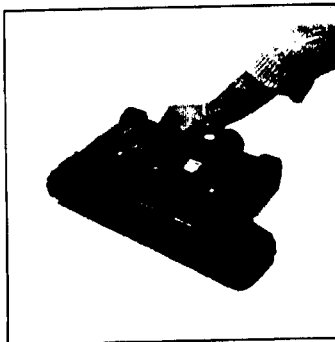
**13**

By operation of the height adjusting knob it is possible to change the height of the brush roller from .04in.(1) to a maximum of .40in.(10mm) according to the type of surface.

## **ELECTRONIC OVERLOAD PROTECTION**

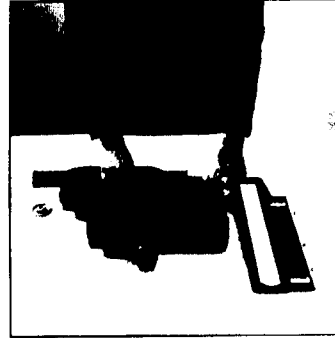
In normal operation the brush height adjusting knob should be rotated until the red light just illuminates.

If during normal use the red light is on continuously, the height adjusting knob should be rotated until the point at which it just goes out. If this is not done the electronic overload will operate stopping the brush motor. If this happens the motor will have to be reset by turning the machine switch off and then on again. Should this not solve the problem, the brush roller will probably have become blocked. Check and remove the source of the blockage.



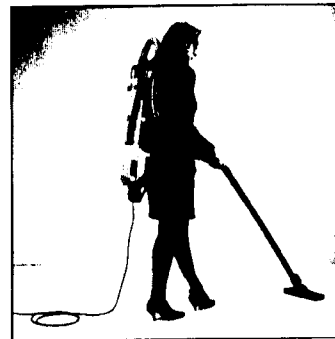
**14**

The change of the brush roller does not need tools. After removing the lower cover with the help of a coin, take out the opposite support to the pulley.



**15**

Turn around the roller clockwise, keeping the pulley blocked with its support. Reassemble the new roller in the reverse order.



**16**

For areas of confined cleaning such as stairs, theatres, etc., an easy to fix harness is available which converts the machine to a "back-pack" unit.



**17**

The cleaner is equipped with a comfortable handle to make transport easier.



## **TECHNICAL DATA**

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**VACUUM MOTOR:** Power max 600W with separate ventilation, notched commutator rotor assembled on two ball bearings.

**BRUSH DRIVE MOTOR:** Power 150W with notched commutator rotor assembled on two ball bearings, electronic controlled.

**MAIN BODY:** Thermoplastic material, Impact resistant, anti-static.

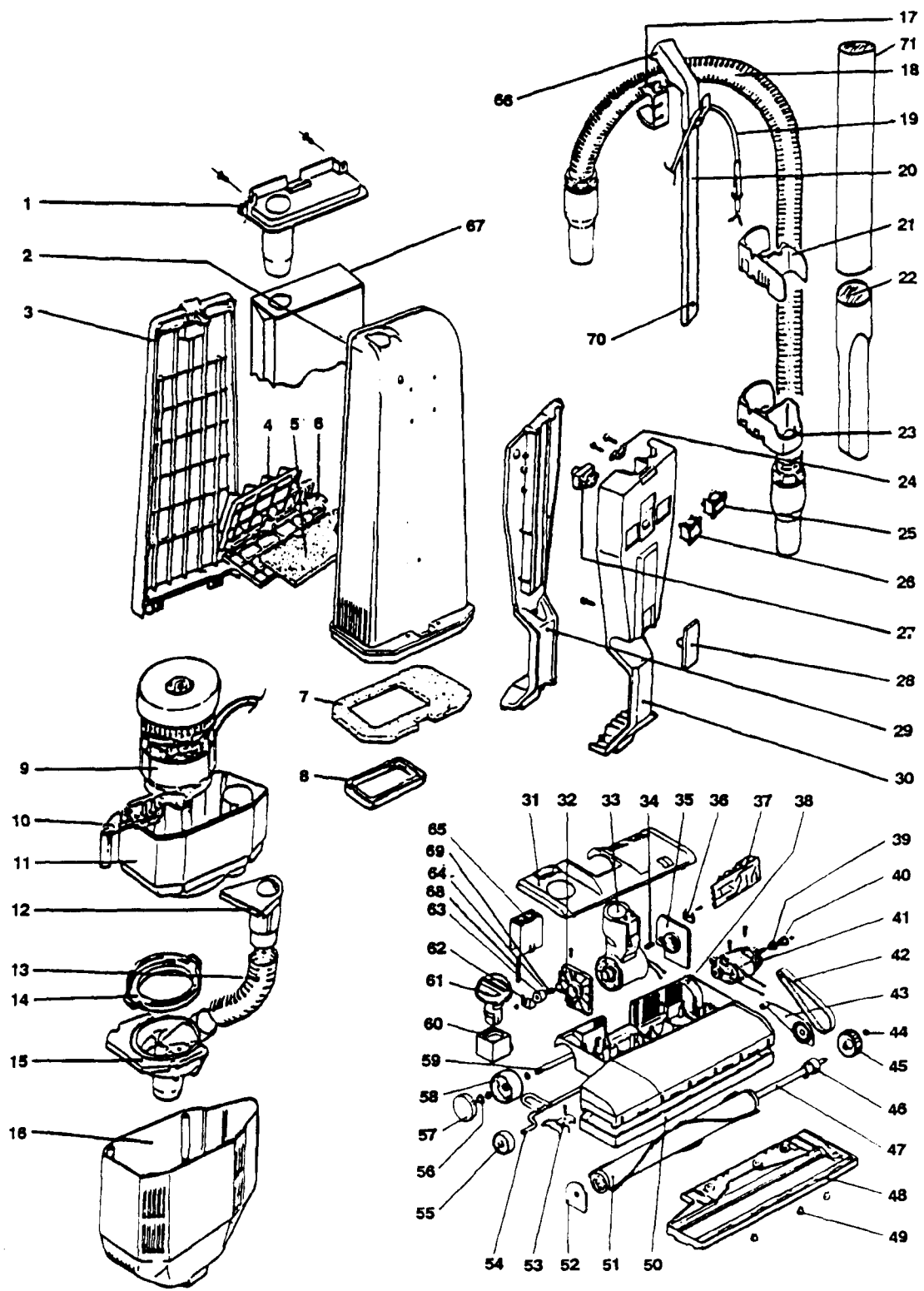
**SUPPLY VOLTAGE:** 120VOLTS - 60 HERTZ

## **IMPORTANT**

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**Before any maintenance, disconnect the plug.**

- The lighting of the Full Bag indicator shows that the bag is full and should be changed.
- The presence of very fine dust impairs the life of the filter bags since it obstructs pores.
- Lighting of the bag-full indicator does not compromise the working of the machine since the motor cooling is independent of the cooling system, it simply indicates that there is less suction.
- When the red indicator lights up, the height of the roller should be adjusted or this could indicate that there is an obstruction, caused by fringes of other materials.



DET PART NO.	DESCRIPTION
1 039225	RETAINER,HOSE--UPPER
2 039207	BODY,MAIN-FRONT,DARK BLUE
3 039208	COVER,REAR--BODY,MAIN,DARK BLU
4 039217	FRAME,FILTER--EXHAUST
5 039218	FILTER,EXHAUST
6 039219	FILTER,PERFUMED--AUXILIARY
7 039211	FILTER,FOAM--EXHAUST
8 039210	GASKET,EXHAUST
9 039206	MTR,VAC--115V,BYP,2-STG,PD
10 039216	RETAINER CABLE CLAMP
11 039220	HOUSING,INNTER MOTOR--
12 039223	RETAINER,HOSE--LOWER
13 039224	HOSE,CONNECTION--
14 039209	GASKET,MOTOR SUPPORT--
15 039222	SUPPORT,MOTOR--LOWER
16 039221	COVER,LOWER OUTER--DARK GREY
17 039226	CLIP,RETAINER--HOSE
18 039227	ASM,HOSE--COMPLETE
18 039329	EXTENSION HOSE W/2 SWIVEL CUFF
19 E35840-3	CORD,POWER-18-3 SJT,35'
20 039228	TUBE,HANDLE--COMPLETE,W/GRIP
21 039229	RETAINER,CREVICE TOOL--UPPER
22 039230	TOOL,CREVICE--BLACK
23 039231	RETAINER,CREVICE TOOL--LOWER
24 039212	CLAMP,CABLE
25 039213	SWITCH,RKR--DPST
26 039214	LIGHT,INDICATOR--115VOLT,RED
27 039215	SENSOR,VACUUM--
28 039232	HOOK,CORD--LOWER
29 039233	FRAME,HANDLE AND SWITCH ASM--
30 039234	COVER,HANDLE AND SWITCH ASM--
31 039331	BASE ASM COMPLETE--KC-152,115V (INCLUDES 31-69)
31 039549	BRUSH-
32 039237	SUPPORT,RIGHT--HANDLE SOCKET
33 039238	ASM,SOCKET--HANDLE
34 039239	BUTTON,SWITCH--
35 039240	SUPPORT,LEFT--HANDLE SOCKET
36 039241	SWITCH,PUSH--
37 039242	ASM,PLATE--ELECTRONIC,115VOLT
38 039243	BODY,MAIN--BRUSH HEAD
39 039244	SPACER,PULLEY--

DET PART NO.	DESCRIPTION
40 039245	PULLEY,MOTOR--BRUSH,COGGED
41 039248	MTR,BRUSH DRIVE--115V
42 039449	Belt
42 039448	Belt and Pulley
43 039248	SUPPORT,TRANSMISSION--
44 039249	NUT--PULLEY
45 039250	PULLEY,BRUSH--COGGED
46 039251	INSERT,DRIVE--BRUSH
47 039252	SHAFT,BRUSH--
48 039253	PLATE,BOTTOM--
49 039254	SCREW--ROLLER COVER
50 039255	BUMPER,MOLDED--BLACK
51 039256	BRUSH-2-MTR UPRIGHT
52 039257	PLATE,END--BRUSH SUPPORT
53 039258	SPRING--
54 039259	AXLE,FRONT--ADJUSTABLE
55 039260	WHEEL,FRONT--BLACK
56 039261	RETAINER,WHEEL--REAR
57 039262	COVER,WHEEL
58 039263	WHEEL,REAR--BLACK
59 039264	AXLE,REAR--
60 039265	HOUSING--HEIGHT ADJUSTMENT
61 039266	KNOB,HEIGHT ADJUST--
62 039267	SLIDE--
63 039268	BSHG--
64 039269	SPRING--HANDLE RELEASE
65 039270	BUTTON--HANDLE RELEASE
66 039271	GRIP,HANDLE--PLASTIC,DARK GREY
67 039574	Cloth Bag
67 039274	BAG,PAPER--PAC OF 10,KC-152
67 039275	BAG,CLOTH--KC-152
68 039332	SPRING--FOOT PEDAL RELEASE
69 039325	PLUNGER--HANDLE RELEASE,KC-152
70 039328	BUTTON,RELEASE--UPPER HANDLE
71 039330	WAND--19IN,STRAIGHT
----- 016604	KIT,TOOL PACKAGE--KC-152
----- KIT INCLUDES: -----	
ONE 034617	ASM, WAND AND REDUCER
ONE E23713A-8	TOOL, CREVICE, 10.0 IN.
ONE E34691-7	TOOL,UPHOLSTERY W/BRUSH,5.5 IN
ONE E45947-7	BRUSH, ROUND DUSTING, 2.5 IN.
ONE 039273	HARNESS,BACK PAC(SET),KC-152
ONE 054955	TOOL HOLDER,MACHINED

# THE KENT LIMITED WARRANTY

Your Kent equipment which has been manufactured, tested and inspected in accordance with carefully specified engineering requirements, is warranted to be free from defects in material and workmanship. This warranty is, however, subject to the following qualifications, conditions, and limitations which are set forth to provide you and all users of the Kent equipment with information concerning the duration, extent, availability, and applicability of this Kent limited warranty, the procedure to be taken to obtain its performance, and other information concerning the Kent warranty policy.

## The Kent Limited Warranty is extended to the original end user as follows:

KC180, KC280, PV1000A, KT151 and KD3S 3 year parts replacement and 1 year service labor warranty.

Upright carpet vacuums KSR14, KX20SC, KS270, KT151 power head and PV1000A power head 1 year parts replacement and service labor warranty.

KC110A upright 90 days parts replacement and service labor warranty.

Replacement parts guaranteed for 90 days from date of installation against defects in material and workmanship.

The 10 year poly component replacement warranty with 1 year service labor extends for a period of ten (10) years from the date of the original purchase of the Kent equipment by the original purchaser. This warranty will not cover damage attributable to the following:

- (1) Improper, unreasonable or negligent use or abuse of the equipment.
- (2) Use of equipment with hot water or high temperature above 130 degrees Fahrenheit (54 degrees centigrade).
- (3) "Warpage", "Creepage", or "Distortion" of part so long as the same does not interfere with normal operation.
- (4) Abrasions or punctures of the equipment.

The start date of the warranty coverage shall be the purchase date of the original end user or six months from the date the machine was shipped from the factory, whichever comes first.

## PARTS OF KENT EQUIPMENT NOT COVERED BY WARRANTY

Certain parts of Kent equipment require replacement in the ordinary course of use due to normal wear by reason of their characteristics. These are normal wear items such as cords, gaskets, switches, bumpers, carbon brushes, handle grips, bags, hoses, bearings, etc.

## EXCEPTIONS AND EXCLUSIONS FROM WARRANTY

This equipment is required to be used on electric current as indicated on the data plate. Otherwise damage, defects, malfunctions or other failures of the equipment arising from use on electric current not as indicated are excepted and excluded from this warranty. Defects, malfunctions, failure or damage of the equipment caused by improper, unreasonable or negligent use or abuse while in the possession of the purchaser are likewise excluded from this warranty. If repair is done on your equipment by anyone other than those designated as authorized to perform such work without first having obtained factory instructions, The Kent Company, at its sole option, may determine that this warranty will not apply and that reimbursement for such repair will not be made because of the failure to comply with such factory specified instructions.

## PROCEDURE TO BE TAKEN TO OBTAIN PERFORMANCE OF WARRANTY REPAIR

To secure repair of the equipment or any warranted parts under this warranty, the following procedure should be taken. The inoperative equipment or warranted parts, together with satisfactory evidence of the purchase date, must be delivered, with shipping and delivery charges prepaid, to one of the following:

- (1) The dealer from whom purchased;
- (2) Any Kent distributor's service department in the United States;
- (3) Any Kent authorized service station in the United States.

If you are unable to locate any of the foregoing, you may write or otherwise communicate with The Kent Company for instructions before repair service is performed by anyone else. In such event, The Kent Company will provide either the location of a closely available Kent distributor service department or Kent authorized service station or other factory Instructions. Upon compliance with the above procedure, all warranted defects will be repaired, at no additional charge or costs to the customer, and the repaired product returned to the customer, with all shipping and delivery charges prepaid. In following the procedures above set forth, PLEASE MAKE CERTAIN to state the Kent model, type and serial number as shown on the data plate of the equipment.

## REPLACEMENT

In the event of a defect, malfunction or failure of your Kent equipment or any warranted part to conform with this warranty, The Kent Company may, at its sole option and own expense, replace the equipment or any warranted part with another new identical or reasonably equivalent model or part in lieu of repairing the defect.

## NO REFUND OF PURCHASE PRICE

The Kent Company will not, as a matter of its warranty policy, refund the customer's purchase price.

## WARRANTY REGISTRATION CARD FOR YOUR KENT EQUIPMENT AND REQUEST FOR INFORMATION

Your Kent Company distributor from whom you purchased your equipment is responsible for the registration of your warranty with the factory. We ask that you cooperate with your distributor in supplying the necessary information on the warranty card so that we may better serve you. Any information or questions you may have concerning your Kent equipment or this warranty may likewise be secured from the factory. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

THE KENT COMPANY

P.O. BOX 1665 ELKHART, INDIANA 46515