

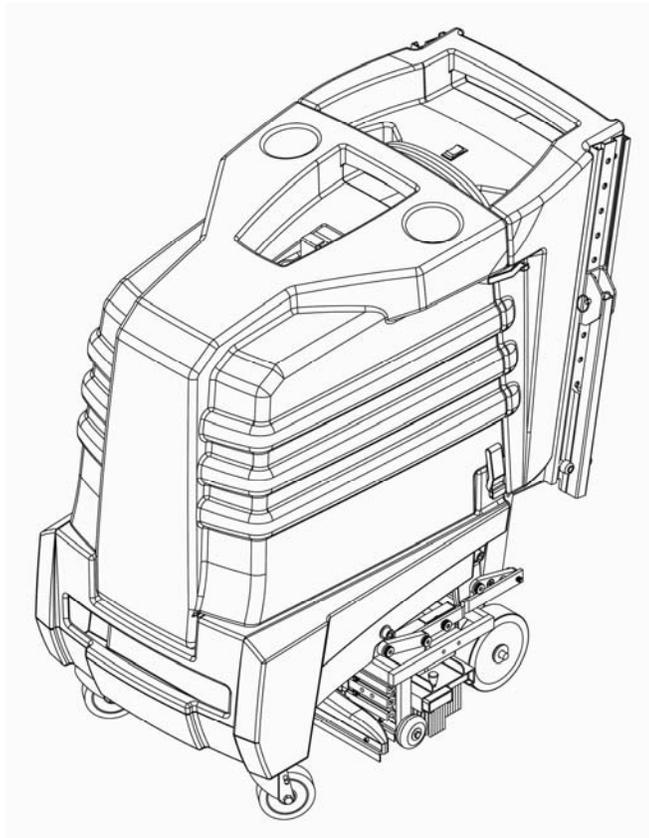
KLEENRITE®

72240

Escalator Cleaner

Model No.:
72240 Escalator Cleaner

Operating and Parts Manual



KLEENRITE
1122 MAPLE STREET
MADERA CA 93637 U.S.A.

FAX: 1-559-673-5725
CUSTOMER SERVICE: 1-800-241-4865

MNL72240
Rev. 00 (12 /11)

OPERATION

This manual is furnished with each new Kleenrite 2240 Escalator Cleaner. It provides important safety precautions. It also provides necessary operation and maintenance instructions along with an illustrated parts list.

Read this manual completely and understand the machine before operating or servicing it.

Use the illustrated Parts Lists to order parts. Before ordering parts or supplies be sure to have your machine model number and serial number handy. Parts and supplies may be ordered by phone or mail from any authorized parts and service center, distributor or directly from Kleenrite.

This machine will provide excellent service. However, the best results will be obtained at minimum costs if:

The machine is operated with reasonable care.

The machine is maintained regularly – per the maintenance instructions provided.

The machine is maintained with manufacturer supplied or equivalent parts.

MACHINE DATA

Please fill out at time of installation for future reference.

Model No.- _____

Install. Date- _____

Serial No.- _____

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OPERATION

SAFETY PRECAUTIONS

This machine is intended for commercial use. It is designed to clean escalators and moving walkways (horizontal people movers) and is not constructed for any other use.

All operators must read, understand and practice the following safety precautions.

The following safety-alert symbols are used throughout this manual as indicated in their description:

⚠ WARNING: To warn of hazards or unsafe practices which could result in property damage, severe personal injury or death.

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

The following information signals potentially dangerous conditions to the operator or equipment.

FOR SAFETY:

- 1. Do not operate machine:**
 - Unless trained and authorized.
 - Unless operator manual is read and understood.
 - In flammable or explosive areas.
 - With damaged cord or plug.
 - If not in proper operating condition.
 - Without the vacuum bags and filters in place.
 - Unless cord is properly grounded.
 - In standing water.
- 2. Before operating machine:**
 - Make sure all safety devices are in place and operate properly.
- 3. When using machine:**
 - Do not run machine over cord.
 - Do not pull machine by plug or cord.
 - Do not pull cord around sharp edges or corners.
 - Do not unplug by pulling on cord.
 - Do not stretch cord.
 - Do not handle plugs with wet hands.
 - Keep cord away from heated surfaces.
 - Report machine damage or faulty operation immediately.
 - Follow mixing and handling instructions on chemical containers.
 - Be sure any chemicals used are safe and non-toxic.
- 4. Before leaving or servicing machine:**
 - Turn off machine.
 - Unplug cord from wall outlet.
- 5. When servicing machine:**
 - Unplug cord from wall outlet.
 - Avoid moving parts. Do not wear loose jackets, shirts, or sleeves.
 - Use manufacturer supplied or approved replacement parts.

⚠ WARNING: Hazardous Voltage. Shock or electrocution can result. Always unplug machine before servicing.

⚠ WARNING: Flammable materials can cause an explosion or fire. Do not use flammable materials in tank or on tread.

⚠ WARNING: Flammable materials or reactive metals can cause an explosion or fire. Do not pick up with vacuum.

⚠ WARNING: Contents of solution hoses may be under pressure even after pump is off.

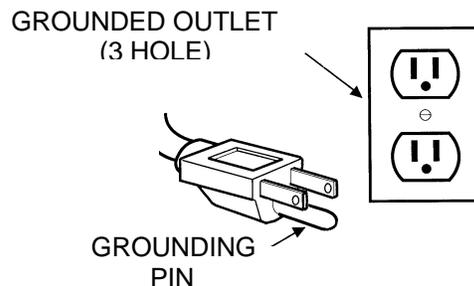
⚠ WARNING: Keep children away from machine while it is in use.

⚠ WARNING: Use the Kleenrite 2240 Escalator Cleaner only as described in this manual and only with the attachments from the manufacturer.

⚠ WARNING: Turn off escalator before putting the Kleenrite 2240 on the movable tread.

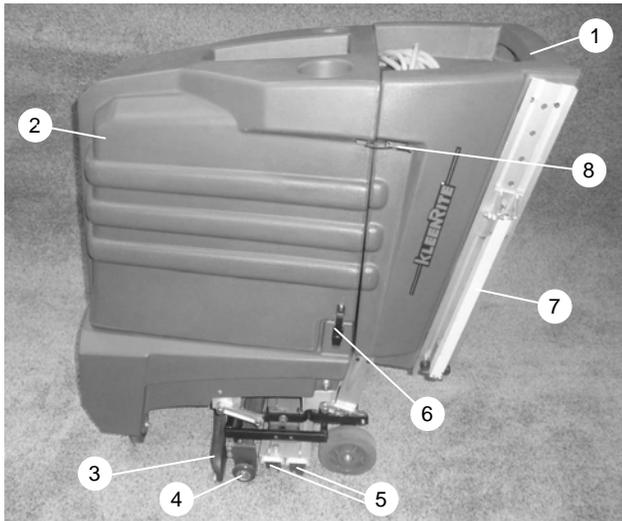
GROUNDING INSTRUCTIONS

Machine must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electrical current to reduce the risk of electrical shock. This machine is equipped with a cord having an equipment-grounding connector and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed in accordance with all local codes and ordinances. Do not remove ground pin; if missing, replace plug before use. International models will have different cord ends.

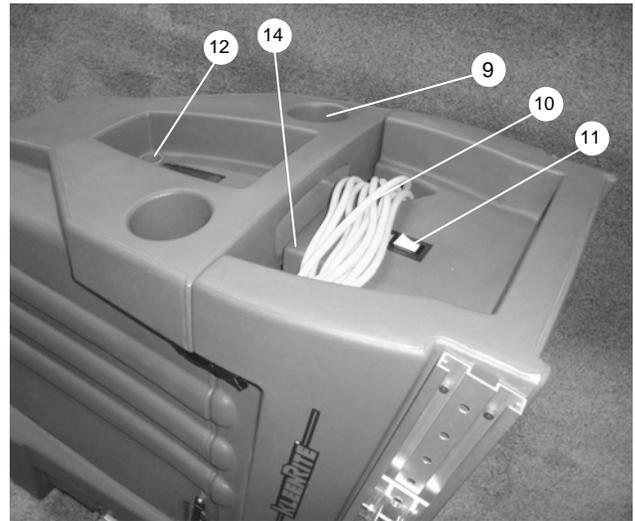


OPERATION

MACHINE COMPONENTS



1. Handle
2. Hood Cover
3. Vacuum Head (one of two)
4. Guide Wheel
5. Brushes
6. Hood Cover Latch
7. Restraining Arm



8. Handle Latch
9. Spray Bottle / Cup Holder
10. Power Cord
11. Vacuum Switch
12. Auxiliary Vacuum Inlet
13. Support Arm Locking Hole
14. Cord Wrap

MACHINE SETUP

1. Carefully check carton for signs of damage. Report damages at once to carrier. The machine is shipped fully assembled and is ready for use.
2. Be certain the escalator is off. Release the two handle latches and lower the handle. Remove the set of brushes to be used for storage (Figure 1). The thicker bristle brushes are for restorative cleaning and should only be used on bare aluminum not powder coated treads. The thinner blue bristle brush set is for routine cleaning of all treads.

3. When the handle is lowered there is a locking bar at the lower part of the handle assembly that automatically engages with the base assembly (Figure 2). Under normal cleaning conditions this keeps the handle down on the stationary tread. To unlock the bar pull it back to clear the two triangular shaped plates attached to the base assembly (Figure 2).

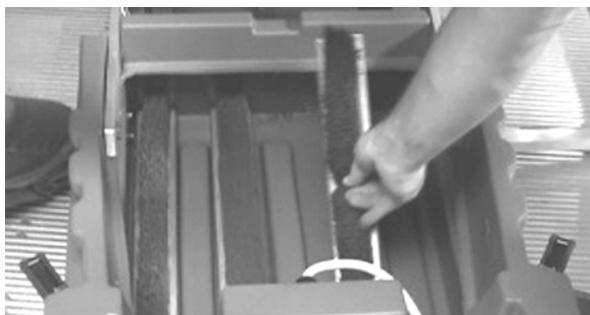


Fig. 1

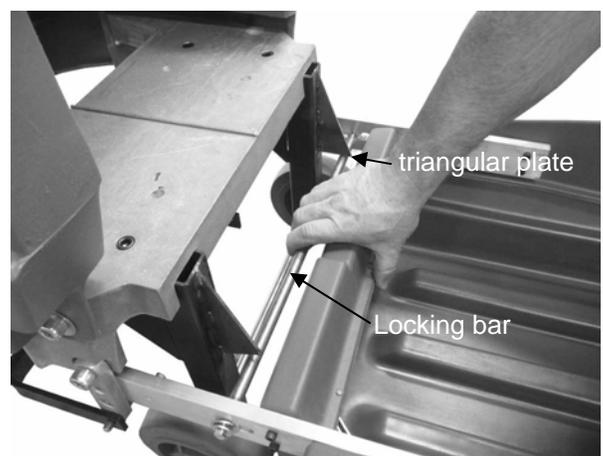


Fig. 2

OPERATION

4. While holding the locking bar, raise the handle and secure in the upright position with the two handle latches (Figure 3). This will raise the vacuum head and brush holding assembly allowing the brushes to be inserted into their holders. **Note:** The brushes should be inserted differently each time so they do not take a set in one direction or lose their resiliency.

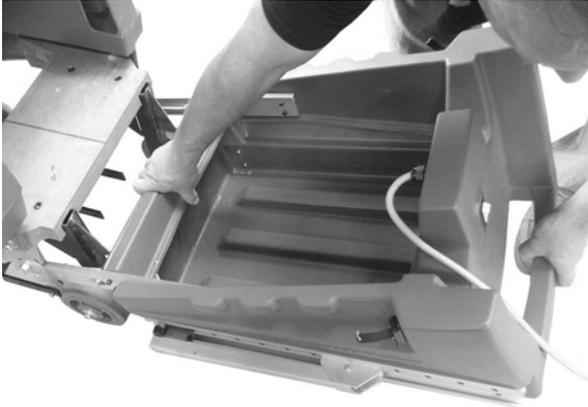


Fig. 3

5. Roll the Kleenrite 2240 Escalator Cleaner onto the stationary tread of the escalator and center it between the two handrails. The front wheels should be behind the comb at this point. Extend each brush an equal distance from both sides of the brush holder so that when the machine is moved into the cleaning position the full width of the tread will be cleaned (up to 40" or 101cm) (Figure 4).

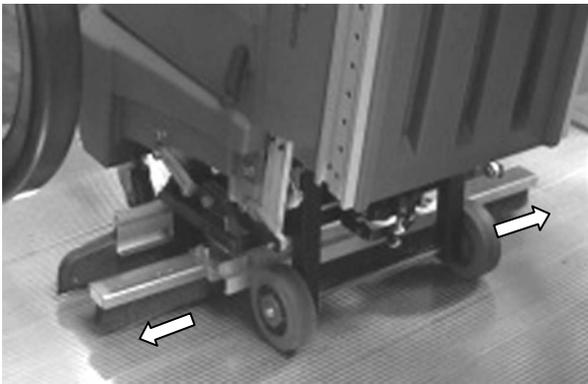


Fig. 4

6. Be sure locking pins engage holes in the brush holder (Figure 5).

7. Extend both vacuum heads as shown in Figure 4. To move the heads it is necessary to press and hold the lever next to the vacuum head (Figure 5).

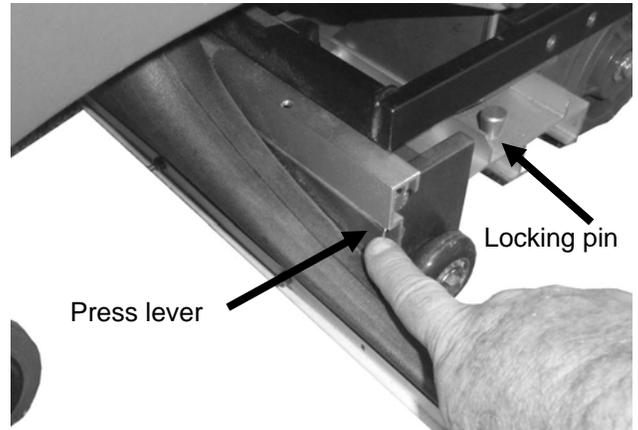


Fig. 5

8. Release both handle latches and lower handle down to floor plate. Open restraining arms, slide in channel and lock the pin at the end of the arm into one of the holes in the channel. Do this on both sides with the arms straight across from each other. Slide the Kleenrite 2240 into the treadwell. Adjustment is correct when the restraining arms are firmly resting on the balustrades and the back brush is just forward of the comb on the movable tread (Figure 6). **Note:** accessory arms are available for escalators where the handrail is against a wall and a shorter arm is needed. Also, accessory arms are available with a standoff built into them where there is a short distance between the balustrade and the comb and the Kleenrite 2240 needs to be held further back than the lowest indexing hole in the slide channel permits.



Fig. 6

OPERATION

9. If the head and the brushes are not level with the tread, turn the adjusting knob. It may be necessary to finely tune this once this escalator is turned on (Figure 7).

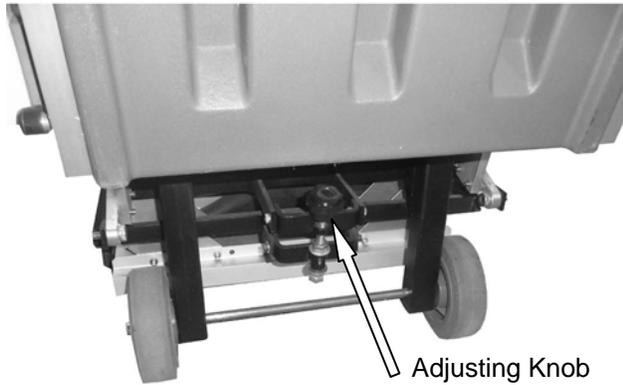


Fig. 7

10. Once the Kleenrite 2240 is in its cleaning position and the leveling described in step 9 above is completed, note the distance from the bottom of the vacuum head to the movable tread. It is important that this distance be within 1/8" (3mm) so the vacuum head can remove the debris from the tread. This is accomplished by adjusting the two small guide wheels on both sides of the Kleenrite 2240 (Figure 8). This usually only needs to be done once for a given escalator.

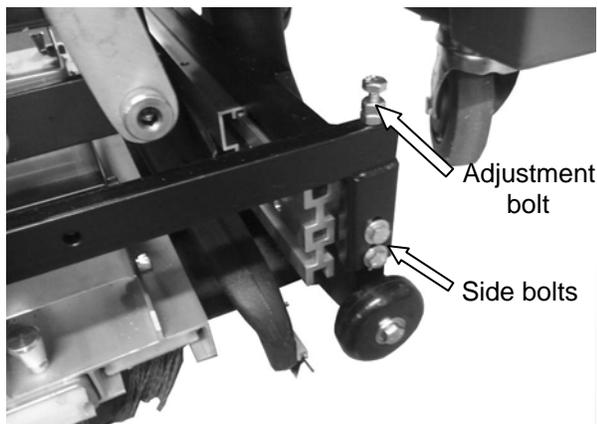


Fig. 8

11. To adjust this height, pull the Kleenrite 2240 out of the treadwell where it can easily be adjusted. Loosen the two side bolts shown in figure 8 and turn the adjustment bolt clockwise to raise the head or counter clockwise to lower it.

Once the desired height is obtained tighten the nut at the base of the adjustment bolt against the frame and tighten the two side bolts. Push the Kleenrite 2240 back into the treadwell and confirm that the molded vacuum head is within 1/8" (3 mm) of the tread. Note: do not adjust the head so low that it drags on the movable tread.

⚠ Warning: Never operate the machine without the restraining arms locked and resting firmly against the balustrades.

⚠ Warning: Always position the Kleenrite 2240 Escalator Cleaner where the treads will be moving AWAY from the cleaner.

12. Plug machine's power cord into a grounded wall outlet (Figure 9).

FOR SAFETY: Do not operate machine unless cord is properly grounded.

MACHINE OPERATION

FOR SAFETY: Do not operate machine unless operator manual is read and understood.

PRE-OPERATION

1. Be sure new, clean vacuum bags are in place. To install, remove the vacuum tank lid, remove used vacuum bags and insert new ones (Figure 10).
2. Fill spotter tank (Figure 11) with Kleenrite escalator spotting cleaner.
3. Be certain the vacuum lever (Figure 13) behind the auxiliary vacuum inlet is in its down position. This directs the vacuum down to the two vacuum heads. In the up position the vacuum is directed to the outlet next to the lever and is used to connect an auxiliary hose for spot cleaning.

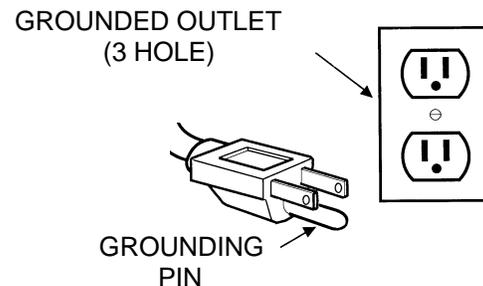


Fig. 9

OPERATION



Fig. 10

CLEANING ESCALATORS

1. Activate the vacuum switch.
2. Turn on the escalator.

⚠ WARNING: Be certain the escalator will be moving AWAY from the Kleenrite 2240 prior to turn it on.

⚠ Warning: While cleaning do not allow use of the escalator or moving sidewalk.

3. If the escalators are extremely soiled it may take up to an hour to clean.
4. If there are stubborn spots on the treads, turn on



Fig. 11

the spotter pump (Figure 11) and lightly spray the spot cleaning solution on the tread **after** it has been vacuumed by the Kleenrite 2240 escalator cleaner (Figure 12). This will allow dwell time for the solution to loosen soil prior to being brushed and vacuumed.



Fig. 12

5. When cleaning is complete turn off vacuum and pull the Kleenrite 2240 escalator cleaner backwards until the entire machine is on the stationary tread.
6. Lift the handle and secure the two handle latches.
7. Slide the vacuum heads and brushes to their center position.

CLEANING WITH ACCESSORY VACUUM HOSE

1. When cleaning is complete there may be some touchup cleaning that needs to be done on the steps or risers. This is best accomplished with the supplied vacuum hose and nozzle.

⚠ WARNING: Escalators must be in the off position before vacuuming the riser.

2. Remove the hose from its storage compartment in the front of the machine and attach it to the auxiliary vacuum inlet (Figure 13).
3. Lift the vacuum lever behind the auxiliary vacuum inlet (Figure 13). This diverts the vacuum to the accessory vacuum hose.

⚠ WARNING: This hose is not to be used as a wet vacuum pickup.



Fig. 13

OPERATION

MACHINE MAINTENANCE

To keep machine in good working condition, simply follow machine's daily maintenance procedures.

FOR SAFETY: When servicing machine, unplug cord from wall outlet.

DAILY MAINTENANCE (Every 4 Hours of Operation)

1. Remove each brush from its brush holder and clean as necessary.
2. Inspect for signs of wear. Turn the brush around and insert into the brush holder. This will promote even wear and extend brush life.

3. Inspect vacuum bags and replace as they become full.

STORING MACHINE

1. Store machine with the handle in the upright position. This will raise the brushes and prevent them from taking a set in one direction. Never allow the brushes to be down with the weight of the machine to be on them except when cleaning.

ATTENTION: Do not expose to rain. Store indoors.

ATTENTION: If storing machine in freezing temperatures, be sure that machine and solution system are completely drained and dry.

LABOR & PARTS POLICY

For the first 12 months from the date of original purchase, upon Kleenrite's determination, product manufacturing defects will be repaired or replaced at no charge for labor and/or parts provided that the machine or part(s) is delivered or shipped freight prepaid to Kleenrite or its designated repair center and provided that a Return Authorization is obtained from Kleenrite prior to machine or part(s) being shipped. (See "How to Obtain a Return Authorization".)

Kleenrite is not responsible to pay for parts supplied by or labor performed by any of its distributors or any general service companies.

PARTS ONLY – STANDARD REPLACEMENT POLICY

For the first 12 months from the date of original purchase, in the event that a part believed to be under warranty fails, simply call Kleenrite to obtain a Return Authorization, ship the part freight prepaid to Kleenrite and, Kleenrite will either repair or replace the part at no charge if it is determined that failure was a manufacturing defect. Kleenrite will then ship the repaired or replaced part back to you freight collect. Our service department can usually talk a person through any part replacement procedure in a matter of minutes. There is no charge for this nationwide toll-free service.

PARTS ONLY – EMERGENCY REPLACEMENT POLICY

For the first 12 months from the date of original purchase, in the event that a part believed by the registered owner to be under warranty fails and an immediate replacement part is requested before Kleenrite can inspect the part that is suspected to be faulty or have a chance to repair it, Kleenrite will ship the requested part on a COD basis (part plus freight) or if credit has been established prior to the request the part will be shipped on an Open Account basis (part plus freight). A Return Authorization must be requested at the time of order so that the suspected defective part can be returned freight prepaid to Kleenrite for warranty consideration. If after receiving the part, Kleenrite determines that the part has a manufacturing defect and can be repaired, the part will be repaired to normal working condition and returned (freight collect) to the original registered owner as a spare part and no refund will be made. Should Kleenrite determine that the part is covered by warranty and cannot be repaired, Kleenrite will credit an open account customer the same amount as was charged when the replacement part was sent less freight and will refund a COD customer the same way. However, should Kleenrite determine that the part received was not a manufacturing defect, you will be informed of such and credit will not be given nor will the damaged part be returned unless requested specifically to the registered owner.

HOW TO OBTAIN A RETURN AUTHORIZATION

Prior to shipping any part, assembly or machine to Kleenrite a Return Authorization Number must be requested from Kleenrite and displayed prominently on the outside of all packages containing parts or machines for warranty consideration to be processed and in effect. A Return Authorization can be obtained by calling Kleenrite Service Department at 1-800-241-4865 or 1-559-673-5700. The machine and/or part serial number must be communicated to Kleenrite Customer Service to receive a Return Authorization Number. Any machine, part or assembly must be returned with its original serial number as affixed by Kleenrite for warranty consideration to be in effect. All returns will be sent to Kleenrite at 1122 Maple Street, Madera Ca. 93637. Fax communications can be sent to 1-559-673-5725 and emails sent to kleenritemfg.com.

WARRANTY

Kleenrite Equipment, Inc. warrants the 2240 Escalator Cleaner against defects in material and workmanship under normal use and service. Kleenrite, hereby, extends a limited three-year warranty on the polyethylene machine housing of the 2240 against cracking or leaking and a one-year warranty on the rest of the machine against manufacturing defect or workmanship subject to the terms and conditions that follow.

TERMS AND CONDITIONS

The warranty obligation extends only to the repair or replacement of parts, assemblies or machine housing found upon examination by Kleenrite to be defective in manufacturing or workmanship, and Kleenrite reserves the right to make that determination. Any adjustment or replacement of defective parts made under this warranty does not void the warranty; neither does it extend the original warranty beyond its term.

Repair or replacements of any machine component(s) with any part(s) other than genuine Kleenrite parts will immediately void this and all warranties.

Vacuum bags, brushes, and seals are considered expendable in normal use and are not covered by this warranty.

This warranty shall not cover any 2240 machine housing, part or assembly if there is evidence of misuse, alteration, owner neglect, lack of proper maintenance, improper voltage, abuse, accident, freezing, flood, fire, etc. and any and all circumstances beyond Kleenrite's control.

In no event shall Kleenrite be liable for loss of use, incidental or consequential damages or any damages to persons or property.

KLEENRITE 1122 MAPLE STREET, MADERA CA 93637 USA
 Phone 800-241-4865, 559-673-5700; Fax 559-673-5725; Email kleenritemfg.com

PLEASE RETURN REGISTRATION WITHIN 10 DAYS OF RECEIVING YOUR 2240 ESCALATOR CLEANING MACHINE.

SPECIALS: Check our web site at: kleenritemfg.com for parts and equipment price specials.

KEEP THIS COPY FOR YOUR RECORDS

WARRANTY REGISTRATION	Date Received
	Registered Owner(s)
	Address
	Phone Number
	Fax Number
	Email Address
	Machine Serial Number
	Purchased From (Distributor)

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In no event shall Kleenrite be liable for loss of use, incidental or consequential damages or any damages to persons or property.

KLEENRITE 1122 MAPLE STREET, MADERA CA 93637 USA
 Phone 800-241-4865, 559-673-5700; Fax 559-673-5725; Email kleenritemfg.com

PLEASE RETURN REGISTRATION WITHIN 10 DAYS OF RECEIVING YOUR 2240 ESCALATOR CLEANING MACHINE.

SPECIALS: Check our web site at: kleenritemfg.com for parts and equipment price specials.

PLEASE RETURN THIS ENTIRE SHEET

WARRANTY REGISTRATION	Date Received
	Registered Owner(s)
	Address
	Phone Number
	Fax Number
	Email Address
	Machine Serial Number
	Purchased From (Distributor)