

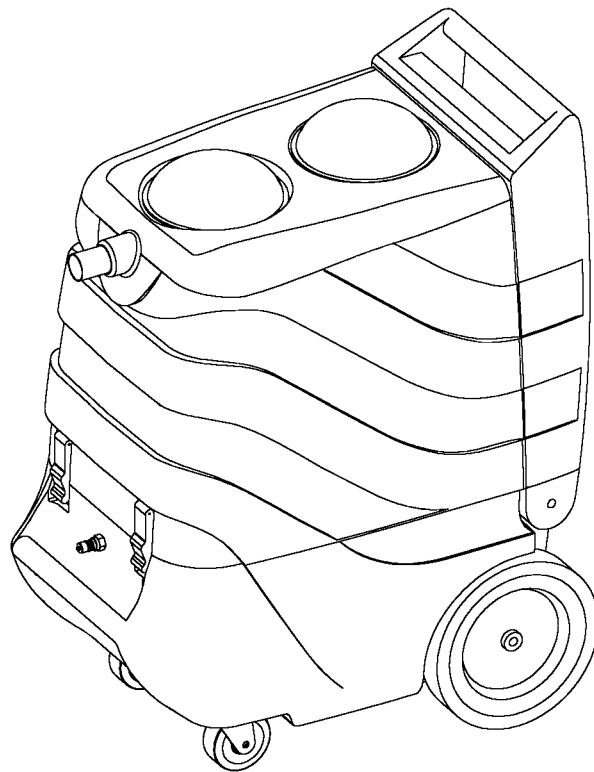
KLEENRITE®

36456

Carpet and Upholstery Cleaner

Model No.:
36456 – 11 gal Extractor

Operator and Parts Manual



KLEENRITE
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MNL36456
Rev. 00 (03-05)

OPERATION

This manual is furnished with each new model. It provides necessary operation and maintenance instructions and 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 wet clean carpet and upholstery in a indoor environment and is not constructed for any other use. Use only recommended cleaning solutions and accessory tools.

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 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.
 - Unless cord is properly grounded.
 - In outdoor areas.
 - In standing water.
 - With the use of an extension cord.
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.
 - Connect hoses before turning on pump.
 - Be sure chemicals 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(s).

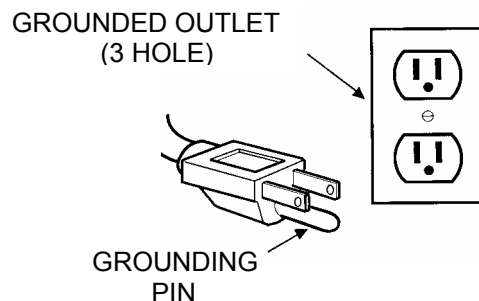
⚠ WARNING: Flammable materials or reactive metals can cause an explosion or fire. Do not pick up.

⚠ WARNING: Hot solutions up to 88° C (190°F). Do not touch with any part of the body. Use thermometer to gauge temperature.

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

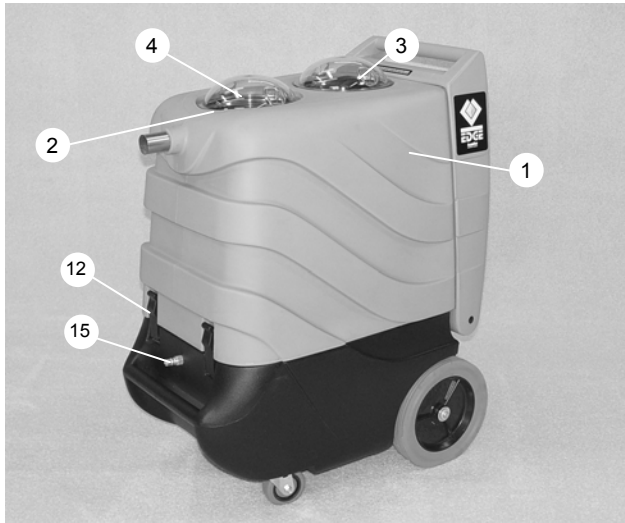
GROUNDING INSTRUCTIONS

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.

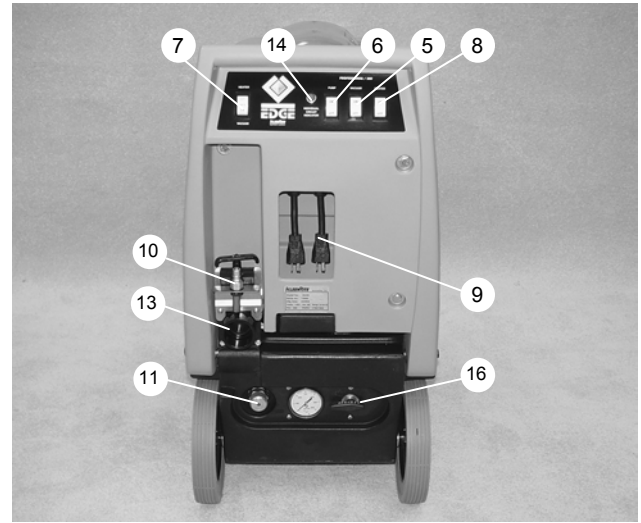


OPERATION

MACHINE COMPONENTS



1. Recovery Tank
2. Solution Tank (under lid)
3. Recovery Tank Lid
4. Solution Tank Lid
5. Vacuum Switch
6. Pump Switch
7. Heater / Vacuum Switch
8. Heater Switch



9. Power Cord Connectors
10. Empty-Out Nozzle
11. Pressure adjustment Valve
12. Latches
13. Recovery Tank Drain
14. Separate Circuit Indicator Light
15. Solution Hose Connector
16. Preheat / Clean Valve

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. Connect hoses and tool to be used (Figure 1).



Fig. 1

3. Using a clean bucket or hose, fill solution tank with 41 liters (11 gallons) of hot water, 60° C (140° F) maximum (Figure 2).

⚠ WARNING: Flammable materials can cause an explosion or fire. Do not use flammable materials in tank(s).

4. Add a recommended cleaning chemical.

FOR SAFETY: When using machine, follow mixing and handling instructions on chemical containers.



Fig. 2

OPERATION

ATTENTION: If using powdered cleaning chemicals, mix prior to adding.

NOTE: If desired, water alone achieves excellent cleaning results.

5. Plug machine's power cord into grounded wall outlet on separate circuits (Figure 3). Green circuit indicator light on switch panel illuminated confirms connection to separate circuits.

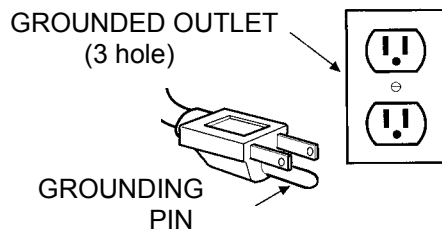


Fig. 3

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

FOR SAFETY: Do not operate machine with the use of an extension cord.

6. Secure recovery and solution lids in place. It is important to secure both lids whenever vacuum is turned on.

MACHINE OPERATION

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

PRE-OPERATION AND HEATING

1. Vacuum carpet and remove other debris with standard vacuum.
2. Inspect power cord(s) for damage.
3. Turn preheat / clean valve to preheat position and turn on pump and heater (Figure 4). This will preheat the entire contents of the solution tank.

CLEANING CARPETS

1. Activate vacuum, pump, and heater switches and turn preheat valve to "clean" position (Figure 5).

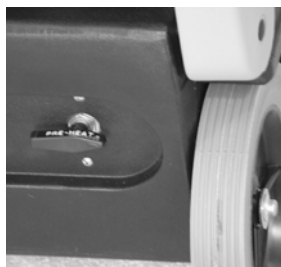


Fig. 4



Fig. 5

2. Take carpet cleaning wand in hand and squeeze valve trigger while moving the tool in short forward and backward strokes. (Figure 6).

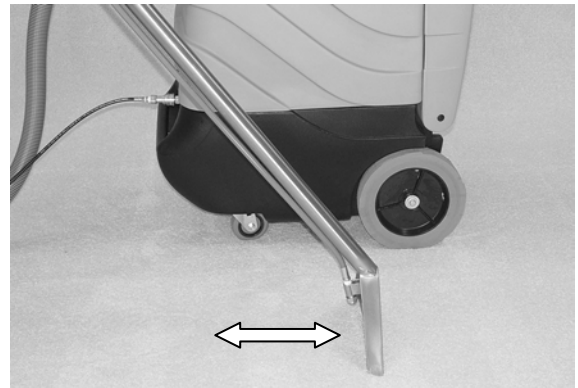


Fig. 6

WHILE OPERATING

1. Overlap each path by 50 mm (2 in).

Warning: Flammable materials or reactive metals can cause an explosion or fire. Do not pick up.

2. Periodically check for excessive foam buildup in recovery tank. Use a recommended foam control solution to prevent vacuum motor damage.

ATTENTION: Excessive foam buildup will not activate the float shut-off screen.

3. To clean heavily soiled areas, repeat cleaning path from a different direction.
4. Empty recovery tank every time water is added to solution tank.

CLEANING WITH ACCESSORY TOOLS

1. Connect accessory tool hoses to the couplers at the end of the hoses already attached to the machine. (Figure 7).

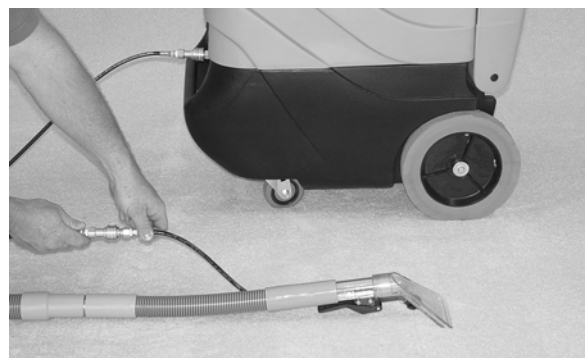


Fig. 7

OPERATION

1. Operate accessory tool as normal (Figure 8).

NOTE: Before cleaning upholstery, always check cleaning instructions sewn in furniture by manufacturer.



Fig. 8

2. After cleaning, relieve water pressure from tool before disconnecting hose. Squeeze trigger for five seconds after turning switches off.

DRAINING SOLUTION TANK

1. Remove empty-out nozzle from its storage bracket (Figure 10) and attach to end of solution hose.



Fig. 10

2. Place empty-out nozzle over a bucket and turn on pump until all the solution has been pumped from solution tank.
3. Replace empty-out nozzle to its storage location.

DRAINING TANKS

DRAINING RECOVERY TANK

1. Turn machine off.
2. Insert supplied 45° elbow in drain valve. Place a bucket below it and slowly pull up on the handle (Figure 9).



Fig. 9

3. Rinse tank with clean water at the end of the day.

FREEZE PROTECTION

1. After draining solution tank as described in steps one and two in the previous section (DRAINING SOLUTION TANK), place empty-out nozzle in end of vacuum hose and seal with hand (Figure 11).

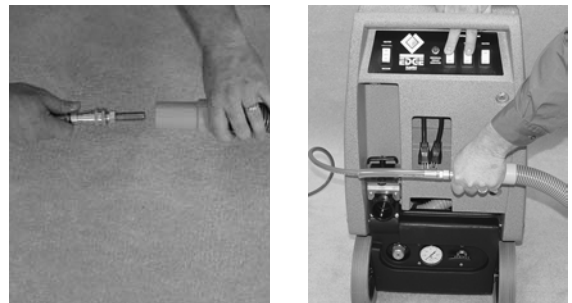


Fig. 11

2. Turn on vacuum and pump for 15 seconds. This will fill the pump and hoses with air and prevent freezing.
3. Replace empty-out nozzle to its storage place.

OPERATION

MACHINE MAINTENANCE

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

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

DAILY MAINTENANCE (Every 4 Hours of Operation)

1. Empty and rinse out recovery tank thoroughly.
2. Remove float shut-off screen from recovery tank and clean (Figure 12.)

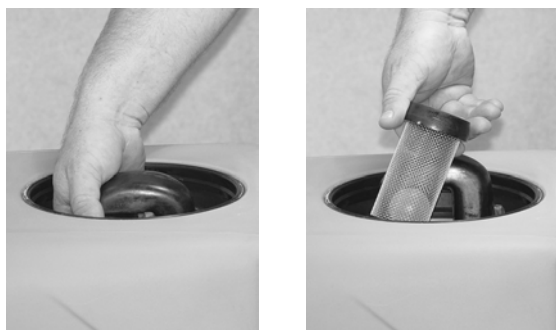


FIG. 12

3. When solution tank is empty, remove and clean solution filter screen located in the bottom of the solution tank.
4. Wipe off power cord and check for damage, replace if necessary. Coil cord neatly after use.
5. Clean machine with an all purpose cleaner and damp cloth.

WEEKLY MAINTENANCE (Every 20 Hours of Operation)

1. Inspect vacuum hoses for holes and loose cuffs.
2. Inspect spray pattern for plugging. If plugged, remove spray tips and soak them in acetic acid solution for up to six hours. Do not use pointed objects to unplug tips, damage will occur.

FOR SAFETY: When using machine, follow mixing and handling instructions on chemical containers.

3. Inspect cord and cord grip for damage. Replace immediately if damaged.
4. Lubricate metal shaft on recovery tank drain with water resistant oil.
5. Lubricate female hose couplers with lightweight oil.

MONTHLY MAINTENANCE (Every 80 Hours of Operation)

1. Lubricate wheels with water resistant oil.
2. Inspect machine for water leaks and loose hardware.

QUARTERLY MAINTENANCE (Every 250 hours of Operation)

Check vacuum motor for carbon brush wear. Replace motor if worn to a length of 10mm (0.38") or less.

STORING MACHINE

1. Before storing machine, be certain to drain and rinse tanks of all water.
2. Store machine in a dry area in the upright position.
3. Open recovery tank lid to promote air circulation.

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.

RECOMMENDED STOCK ITEMS

Refer to Parts List section for recommended stock items. Stock items are clearly identified with a bullet preceding the parts description. See example below:

PART #	DESCRIPTION	QTY.
J-30.	LID, DOME EDGE	1
• J-38GRANITE	TOP,SOL TANK ROTO GRANITE	1
J-39.5GRANITE	HANDLE,WASTE TANK SPHERE ROTO GRANI	1
J-39GRANITE	WASTE TANK,SPHERE ROTO GRANITE	1

OPERATION

TROUBLE SHOOTING

PROBLEM	CAUSE	SOLUTION
Machine does not operate.	Faulty switches or wiring.	Contact Service Center.
	Faulty power cord.	Contact Service Center.
	Building circuit breaker tripped.	Reset Breaker.
Heater does not heat.	Faulty switch or wiring.	Contact service center.
Solution pump does not operate.	Faulty switch or wiring.	Contact Service Center.
	Faulty solution pump motor.	Contact Service Center.
	Faulty pump head.	Contact Service Center.
	Trigger on wand not pulled.	Pull Solution Trigger.
	Quick couplers not fully engaged.	Connect quick couplers.
Vacuum motor does not operate.	Loose or broken wiring.	Contact Service Center.
	Faulty vacuum switch.	Contact Service Center.
	Defective vacuum motor.	Contact Service Center.
	Worn carbon brushes.	Contact Service Center.
Poor solution pick-up.	Recovery tank drain valve open.	Close valve.
	Vacuum or solution lids loose.	Tighten both lids.
	Defective lid gasket(s).	Replace gasket(s).
	Clogged float shut-off screen.	Remove recovery tank lid and clean screen.
	Loose vacuum hose connections.	Secure cuffs to hose.
	Defective vacuum hose.	Replace hose.
Uneven or no spray.	Plugged spray tips.	Clean or replace tips.
	Improper spray tip size or spray angle.	Replace with proper tips.
	Worn spray tips.	Replace spray tips.
	Solution tank low or empty.	Refill solution tank.
	Faulty solution pump.	Contact Service Center.

OPERATION

SPECIFICATIONS

Model	36456
LENGTH	711 mm (28 in)
WIDTH	450 mm (17.7 in)
HEIGHT	1016 mm (40 in)
WEIGHT	61.6 Kg (136lbs)
SOLUTION TANK CAPACITY	41 L (11 gal)
RECOVERY TANK CAPACITY	38L (10 gal)
SOLUTION PUMP	120 V, 20.68 bar (300psi), 2.19 A
VACUUM MOTORS – 3 STAGE PARALLEL	2 @ 120 V, 12.1 A, 1452 W
HEATER	CIR 1-120 V, 14.6 A, 1750 W; CIR 2-120v, 4.1A, 500W
SEALED WATER LIFT	3429 mm (135 in)
TOTAL POWER CONSUMPTION	CIR 1–120V, 18.0A, 2160W; CIR 2– 120V, 14.6A,1750W
POWER CORDS	2 @ 7.6m (25 ft) 3/12
DECIBEL RATING 3 METERS (10 FT) FROM MACHINE ON CARPET	<68 db(A)

MACHINE DIMENSIONS

