READ THIS BOOK
This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your Clarke machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If you or your operator(s) cannot read English, have this manual explained fully before attempting to operate this machine.

Si Ud. o sus operadores no pueden leer el Inglés, se hagan explicar este manual completamente antes de tratar el manejo o servicio de esta máquina.

All directions given in this book are as seen from the operator’s position at the rear of the machine.

For new books write to: Clarke®, 2100 Highway 265, Springdale, Arkansas 72764.
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OPERATOR SAFETY INSTRUCTIONS

⚠️ WARNING ⚠️ AVERTISSEMENT ⚠️ ADVERTENCIA

⚠️ DANGER: Failure to read and observe all DANGER statements could result in severe bodily injury or death. Read and observe all DANGER statements found in your Owner's Manual and on your machine.

⚠️ WARNING: Failure to read and observe all WARNING statements could result in injury to you or to other personnel; property damage could occur as well. Read and observe all WARNING statements found in your Owner's Manual and on your machine.

⚠️ CAUTION: Failure to read and observe all CAUTION statements could result in damage to the machine or to other property. Read and observe all CAUTION statements found in our Owner's Manual and on your machine.

⚠️ DANGER: Failure to read the Owner's Manual prior to operating or attempting any service or maintenance procedure to your machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If you or your operator(s) cannot read English, have this manual explained fully before attempting to operate this machine.

⚠️ DANGER: Operating a machine that is not completely or fully assembled could result in injury or property damage. Do not operate this machine until it is completely assembled. Inspect the machine carefully before operation. Do not use as a step or furniture, the machine could move causing injury.

⚠️ DANGER: Machines can cause an explosion when operated near flammable materials and vapors. Do not use this machine with or near fuels, grain dust, solvents, thinners, or other flammable materials.

⚠️ DANGER: Using a machine with a damaged power cord could result in an electrocution. Do not use the machine if the power cord is damaged. To prevent damage to the power cord, do not let the brush touch the power cord when the machine is running. Always lift the power cord over the machine. Do not use the electrical cord to move the machine.

⚠️ DANGER: Electrocution could occur if maintenance and repairs are performed on a unit that is not disconnected from the power source. Disconnect the power supply before changing the brush or accessories or attempting any maintenance or service. Maintenance and repairs must be done by authorized personnel.

⚠️ WARNING: Operating a machine without observing all labels and instructional information could result in injury or damage. Read all machine labels before attempting to operate. Make sure all of the labels and instructional information are attached or fastened to the machine. Get replacement labels and plates from your Clarke distributor.

⚠️ WARNING: Always use a three-wire electrical system connected to the electrical ground. For maximum protection against electric shock, use a circuit that is protected by a ground fault circuit interrupter. Consult your licensed electrician and/or contact your local Clarke distributor for assistance.

⚠️ WARNING: To prevent electrical shock, do not use this machine on wet surfaces. Protect the machine from rain. Keep the machine in a dry building. Always clean the machine with a clean dry cloth.
**HOW TO PREPARE THE MACHINE FOR OPERATION**

**WARNING:** To prevent electric shock, do not vacuum liquids or wet surfaces with this machine.

The Model 577 has five brush settings (1). The adjustment lever (2) is at the rear of the machine. See Figure 1.

**To set the brush height, do the following:**

1. Place your foot behind one wheel.

**NOTE:** Do not push the handle release lever.

2. Pull back on the handle a little.
3. With your other hand, pull the adjustment lever.
4. Put the adjustment lever in the "High" setting.
5. Move the adjustment lever toward the "Low" setting.
6. When the brush comes in contact with the carpet, push the adjustment lever in the detent.

**NOTE:** Do not set the brush too low. Shag carpets are generally best cleaned by the brush in the highest setting.

**CAUTION:** Be careful when cleaning long shag, the carpet can go around the brush, and slow or stop the brush.

**How To Use Your Machine As A Tank Type Vacuum Cleaner**

You can use your Carpetmaster as a tank type vacuum cleaner to clean overhead and hard to reach areas. Get extension tubes, hoses, wands, and attachments from your Clarke dealer.

To attach the accessories to your Carpetmaster, follow this procedure.

1. Pull the black standpipe hose (1) off the standpipe tube (2). The hose is at the lower-right corner of the machine.

2. Slide the hose adapter (3) on the tube.

3. Slide the vacuum hose on the adapter (4). See Figure 2

The accessory switch is on the rear of the housing. To start only the vacuum motor, do the following:

1. Make sure the handle is in the vertical position.

2. Press the "Vac Only Switch." See Figure 3.
120 VOLT MACHINES
INSTRUCTIONS FOR CONNECTION
TO THE POWER SUPPLY
AND THE ELECTRICAL GROUND

The machine must be connected to the electrical ground to protect the operator from electric shock. The machine has an approved power cord with three conductors and a plug with three terminals. Connect the plug to a receptacle that has three holes and is connected to the electrical ground. For maximum protection against electric shock, use a circuit that is protected by a ground fault circuit interrupter. The green (or green and yellow) conductor in the cord is the ground wire. Never connect this wire to any terminal other than the ground terminal.

This machine uses a 120 volt AC 60 cycle electrical circuit. Make sure you have the correct frequency and voltage before connecting the power cord to an outlet. The machine has a plug as shown in Figure 4. If a receptacle connected to the electrical ground as shown in Figure 4 is not available, have one installed by an electrical contractor. Do not use an adapter.

WARNING: To prevent possible electric shock, protect the machine from rain. Keep the machine in a dry building.

WARNING: To prevent possible electric shock, always use a 3-wire electrical system connected to the electrical ground. For maximum protection against electrical shock, use a circuit that is protected by a ground fault circuit interrupter. Consult your electrical contractor.

WARNING: Do not cut, remove or break the ground pin. If the outlet does not fit the plug, consult your electrical contractor.

WARNING: Have worn, cut, or damaged cords and plugs replaced by an authorized service person.

EXTENSION CORDS
Use only an approved extension cord with three conductors, a plug with three terminals, and a connector body with three holes. The machine has a power cord with wire size 14 AWG (AWG means American Wire Gauge).

WARNING: If you use an extension cord, use an extension cord with minimum wire size 16 AWG. Do not use an extension cord longer than 50 feet. Do not join two extension cords.
HOW TO OPERATE YOUR MACHINE

How To Start The Machine

The handle release lever is at the lower left rear corner of the machine (1). See Figure 5.

To start the machine, do the following:
1. Using your foot, push the release lever forward (1).
2. Lower the handle.

The vacuum motor and the brush drive motor will start when the handle is lowered. To activate the vacuum motor only, push the "Vac Only Switch," and lower the handle.

NOTE: When using the vacuum motor and the brush drive motor, make sure the "VAC Only Switch" is in the off position.

How To Stop The Machine

To stop the vacuum motor and the brush drive motor, push the handle to the upright position.

Circuit Breaker

The Model 577 has a circuit breaker. If there is an obstruction in the machine, the brush drive motor will stop. To restart the motor, follow this procedure:

1. Make sure the handle is in the upright position.
2. Remove the electrical plug from the electrical outlet.
3. Put the machine on its side so that the right side is up.
4. If there is an obstruction, remove the obstruction.
5. Put the machine in the upright position.
6. Put the electrical plug in the electrical outlet.
7. The reset button is at the lower rear of the machine. Push the reset button. See figure 6

MAINTENANCE

This section describes the procedures that must be done by a person authorized to do maintenance.

WARNING: To prevent electric shock, always remove the electrical plug from the electrical outlet before doing any repairs or maintenance to this machine.

How To Clean And Install The Filter Bag

WARNING: Do not put a filter bag in an incinerator or fire. It could cause injury to the operator by causing a fire.
Maintenance

How To Clean and Install The Filter Bag (cont)

CAUTION: Do not operate this machine unless a filter bag is in position. It could damage the vacuum motor.

When replacing the paper filter bags, follow this procedure:

1. When the bag is ¾ full, open the tank by pushing the knob (1) on top of the tank. See figure 7
2. Lift out and discard the used bag.
3. Unfold a new paper bag.
4. Hold the bag by the cardboard inlet tab (2).
5. Slide the inlet over the standpipe (3). Do not apply pressure to the back of the bag.
6. Close the front cover.

When cleaning the cloth filter bag, follow this procedure:

1. When the bag is ¾ full, open the tank by pushing the knob on top of the tank.
2. Pull out the cloth bag.
3. Slide off the clip.
4. Remove the dirt from the bag.
5. Sweep the inside surface of the bag to remove the remaining dirt.
6. When the bag is clean, fasten the clip.
7. Slide the inlet seal over the standpipe.
8. Close the front cover.

How To Clean The Foam Filter

A foam filter is on the base of the vacuum motor. See figure 8. The filter helps to prevent dust and debris from entering the vacuum motor. Wash the foam filter every week. To remove the filter, slide it off the motor housing.

CAUTION: Make sure the foam filter is completely dry before you install it. Moisture will damage the vacuum motor.

How To Install The Micro-Staphicidal® Filter

The Micro-Staphicidal filter is offered as optional equipment. Use the Micro-Staphicidal filter with the cloth filter or the paper filter. To install the Micro-Staphicidal filter, follow this procedure:

1. Open the tank by pushing the knob on top of the tank.
2. Remove the foam filter from the base of the machine.
3. Make sure the cloth bag or the paper filter bag is in position.
5. Close the front cover.
The Micro-Staphicidal filter will trap minute airborne particles down to .3 microns in size. The filter traps the bacteria, it does not kill the bacteria. Clean the filter at least once a month. To clean the Micro-Staphicidal filter, follow this procedure:

1. Remove the filter.
2. Tap the filter against a hard surface.
3. Blow or vacuum the loose dirt from the filter.

If the filter is not clean after doing the above, do the following:

1. Wash or soak the filter in a detergent and water solution.

⚠️ **CAUTION:** Do not wash or soak the filter more than five minutes.

2. Remove the filter from the solution.
3. Rinse the filter with clean water.
4. Dry the filter thoroughly.

The Micro-Staphicidal filter should be replaced after six months of use.

**How To Check For Worn Brushes**

To check for worn brushes, follow this procedure:

1. Put the machine on its side so that the right side is up.
2. Check the bristles, make sure the bristles are not shorter than 5/16 inch. See figure 10
3. If the bristles are shorter than 5.16 inch, replace the brush.

**How To Replace The Brush**

The brush has a chevron design. The brush has two halves fastened to a steel tube by screws. To remove the worn brushes, do the following:

1. Remove the three screws from each half. See figure 11.
2. When installing the brush halves, make sure the center of each half of the brush points to the front of the machine when seen from the bottom.
3. Tighten the three screws from each half.
4. Always replace both halves of the brush.

**How To Open The Bottom Cover**

The bottom of your Carpetmaster® has a cover which is also a mounting plate for the front swivel casters. Open the cover to get access to the brush drive motor, belt, switches, and the air tunnel. The release lever is at the rear of the machine.
To open the cover, follow this procedure:
1. Remove the electrical plug from the electrical outlet.
2. Put the machine on its side so that the right side is up.
3. Remove the screw.
4. Pull the lever (1) and turn it clockwise to release the cover.
5. Put the rod in the detent opposite the five brush setting holes (2). See figure 12

How To Clean The Air Tunnel
The air tunnel cover is located on the bottom of the machine.
To clean the air tunnel, follow this procedure:
1. Lift the tunnel clamp (1).
2. Remove the cover (2).
3. Remove the object or debris.
4. Put the cover in position.
5. Push the tunnel clamp down. See figure 13

How To Adjust The Brush Drive Belt
To adjust the tension of the belt to drive the brush, use this procedure:
1. Loosen the four screws that hold the motor.
2. Move the motor toward the front of the machine to loosen the belt. Move the motor toward the back of the machine to tighten the belt.
3. The tension of the belt is correct when you can push the belt 1/8 inch to 3/16 inch at the belt guard (14 lbs. pressure if you use a belt tension gauge).
4. Tighten the four screws that hold the motor.

Turn the belt by hand to make sure the belt is aligned on the pulleys. To adjust the alignment of the belt, use this procedure:
1. Loosen the two set screws on the pulley on the motor.
2. Move the pulley to the left or to the right.
3. Tighten the two set screws.

To put the machine back in operation, follow this procedure:
1. Close the bottom cover.
2. Move the brush adjustment lever to one of the five brush height settings.
3. Push the lever in the setting detent.
4. Set the machine upright. Make sure the handle is in the vertical position.

WARNING: Do not operate this machine unless it is fully assembled. The machine could be damaged or injury could occur to the operator.
How To Remove The Drive Motor
The motor to drive the brush needs no preventive maintenance. If the motor must be replaced, follow this procedure:
1. Remove the four mounting screws (1). See figure 14
2. Lift the motor to remove the two screws from the motor plate.
3. Disconnect the six spade connectors.
4. Remove the motor from the machine.

Maintenance Of The Vacuum Motor
This machine uses a universal motor that has a commutator and carbon brushes. The commutator and carbon brushes must be checked every six months, or 600 hours of operation, whichever comes first.

WARNING: Electrical inspections must be made by a person authorized to do maintenance. Electrical repairs must be made by a person authorized to make electrical repairs.

WARNING: To prevent electrical shock, always remove the electrical plug from the electrical outlet before doing any repairs or maintenance to this machine.

How To Check The Commutator and The Carbon Brushes
To check the commutator and the carbon brushes, follow this procedure:
1. Remove the screws that hold the motor baffle. The motor baffle is at the rear of the machine.
2. Remove the baffle.
3. Remove the wire clip mounting screw and the grounding mounting screw.
4. Remove the wire nuts.
5. Remove the vacuum motor mounting screws.
6. Remove the motor from the tank.
7. Inspect the commutator. Take the machine to a Clarke Authorized Repair Location if you see any of the following conditions:
   a. Small holes in the surface of the commutator. See figure 15A
   b. Uneven color. Look for an even dark brown color. Clean areas or very dark areas indicate a problem. See figure 15B
   c. High mica. The mica insulation must be lower than the commutator bars. See figure 15C
8. Remove the carbon brush assemblies and check the carbon brushes. Replace both carbon brush assemblies if either brush is shorter than 3/8 inch. If either brush is shorter than 1/2 inch, order replacement brushes. Be ready to replace both carbon brushes earlier than the normal inspection time.
9. Install the motor, the motor baffle, and the fasteners.

WARNING: The machine must be tested for electrical safety after electrical repairs are made.

NOTE: For safe operation have your machine checked by a Clarke Authorized Repair Person every 12 months. Always use Clarke replacement parts.
<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>ACTION</th>
</tr>
</thead>
</table>
| The machine does not run. | 1. There is no power | 1. There is an obstruction. See “Circuit Breaker” in the manual.  
2. The electrical outlet, power cord, electrical switches and motor brushes are to be checked. Electrical inspections must be made by a person authorized to do maintenance. Electrical repairs must be made by a person authorized to make electrical repairs. |
| The machine does not remove debris from the floor. | 1. The filter bag is dirty. | 1. If the bag is ¾ full, discard the paper bag. clean the bag if it is a cloth bag. If the machine is used to pick up heavy debris, discard or clean the bag before it is ¾ full. |
| | 2. There is an obstruction in the standpipe. | 1. Remove the hose from the standpipe tube.  
2. Start the vacuum motor.  
3. Hold your hand over the standpipe tube. If you feel no suction, the standpipe has an object in it.  
4. Shut off the vacuum motor.  
5. Remove the object. |
| | 3. There is an obstruction in the hose. | 1. Remove the hose from the standpipe tube.  
2. Remove the obstruction. |
| | 4. There is an obstruction in the air tunnel. | 1. Check the air tunnel.  
2. Replace the gasket if it is worn or broken. |
| | 5. The tank gasket is worn or broken. | 1. Check the entire gasket (top, bottom, and sides) where the front tank seals against the rear tank.  
2. Replace the gasket if it is worn or broken. |
| | 6. The brush does not turn clockwise when seen from the right-hand side of the machine. | 1. Return the machine to a Clarke Service Branch or a Clarke Technology Service Center to have the motor wired correctly. |
| | 7. The brush setting is not correct. | 1. Change the brush setting. If the brush is set too low on a deep pile carpet, the housing can stop the air flow. |
| | 8. The brush is worn.  
9. The foam filter is dirty. | 1. Replace the brush.  
1. Clean the foam filter. |
| The brush does not rotate. | 1. There is an obstruction in the brush housing. | 1. Remove the obstruction. |
| | 2. There is an obstruction in the bearings on the end of the brush. | 1. Remove the obstruction. |
| | 3. The belt is broken or loose. | 1. Replace or tighten the belt. |
| | 4. There is low line voltage. | 1. Remove other appliances on the line or provide a separate circuit. |
| | 5. The brush drive motor will not run. | 1. Push the circuit breaker button. |
### Ref | Part No. | Description | Qty |
--- | --- | --- | --- |
1 | 44606A | Motor Asm. - Brush ¼HP 120V | 1 |
2 | 44602A | Motor Asm. - Brush ¼HP 220V | 1 |
3 | 48500A | Tubing | 1 |
4 | 911562 | Switch (Main) | 1 |
5 | 609407 | Tubing | 1 |
6 | 42186B | Cord Asm. (Power Supply) | 1 |
7 | 657501 | Strain Relief | 3 |
8 | 911413 | Wire Nut | 3 |
9 | 606440 | Plate, Grounding | 1 |
10 | 41954A | Cord Asm. (Vac Motor) | 1 |

### Ref | Part No. | Description | Qty |
--- | --- | --- | --- |
10 | 912294 | Lead Asm. | 1 |
11 | 912262 | Switch - Accessory | 1 |
12 | 990716 | Tape - Electrical | 1 |
13 | 44900A | Motor - Vac 120V | 1 |
14 | 44901A | Motor - Vac 220V | 1 |
15 | 912263 | Circuit Breaker, 120V | 1 |
16 | 912270 | Circuit Breaker, 220V | 1 |

**NOTE:** Indicates a change has been made since last publication of this manual.

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**CAUTION:** Repairs by qualified personnel only.

**NOTA:** Precaución: Unicamente personal calificado deberían hacer reparaciones.
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<th>Ref #</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
<th>Ref #</th>
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PRODUCT SUPPORT BRANCHES

U. S. A. Locations

HEA OFFICE
ALTO U.S. Inc., St. Louis, Missouri
16253 Swingley Ridge Road, Suite 200
Chesterfield, Missouri 63017-1725

PRODUCTION FACILITIES

Clarke®, Springdale, Arkansas
2100 Highway 265
Springdale, Arkansas 72764
(479) 750-1000
Customer Service - 1-800-253-0367
Technical Service - 1-800-356-7274

American Lincoln®, Bowling Green, Ohio 43402
1100 Haslens Road

SERVICE FACILITIES

Clarke®, Carlstadt, New Jersey 07072
150 Commerce Road
(201) 460-4774

Clarke®, Elk Grove, Illinois 60007
2280 Elmhurst Road
(847) 956-7900

Clarke®, Denver, Colorado 80204
1955 West 13th Ave.
(303) 623-4367

Clarke®, Houston, Texas 77040
7215 North Gessner Road

SALES AND SERVICE FACILITIES

American Lincoln® / Clarke®, Madison Heights, Michigan 48071-0158
29815 John R.
(810) 544-6300

American Lincoln® / Clarke®, Marietta, Georgia 30062
1355 West Oak Common Lane
(770) 973-5225

Clarke®
Clarke American Sanders
A.L. Cook
Customer Service Headquarters and Factory
2100 Highway 265
Springdale, Arkansas 72764
(479) 750-1000

Technical Service
1-800-356-7274

European Locations

PRODUCTION FACILITIES

ALTO Danmark A/S, Aalborg
Blytaekkervej 2
DK-9000 Aalborg
+45 72 18 21 00

ALTO Danmark A/S, Hadsund
Industrikkærter
DK-9560 Hadsund
+45 72 18 21 00

SALES SUBSIDIARIES

Clarke® Canada Ltd., Rexdale Ontario
24 Constellation Ct.
(416) 675-5830

ALTO Overseas Inc., Sydney (Australia)
1B/8 Resolution Drive
Caringbah NSW 2229
+61 2 9524 6122

ALTO Cleaning Systems Asia Pte Ltd., Singapore
No. 17 Link Road
Singapore 619034
+65 268 1006

ALTO Deutschland GmbH, Bellenberg (Germany)
Guido-Oberdorfer-Straße 2-8
89287 Bellenberg
+49 0180 5 37 37 37

ALTO Cleaning Systems (UK) Ltd., Penrith
Gilwilly Industrial Estate
Penrith
Cumbria CA11 9BN
+44 1768 868 995

ALTO France S.A. Strasbourg
B.P. 44, 4 Place d’Ostwald
F-67036 Strasbourg
Cedex 2
+33 3 8828 8400

ALTO Nederland B.V. Vianen
Stuaartweg 4C
NL-4131 NJ Vianen
+31 347 324000

ALTO Sverige AB, Molndal (Sweden)
Aminagatan 18
Box 4029
S-431 04 Molndal
+46 31 706 73 00

ALTO Norge A/S, Oslo (Norway)
Bjornerudveien 24
N-1266
+47 2275 1770
Clarke® U.S. WARRANTY

This Clarke Industrial/Commercial Product is warranted to be free from defects in materials and workmanship under normal use and service for a period of one year from the date of purchase, when operated and maintained in accordance with Clarke's Maintenance and Operations Instructions.

This warranty is extended only to the original purchaser for use of the product. It does not cover normal wear parts such as electrical cable, rubber parts, hoses, bearings, casters, and belts.

If difficulty develops with the product, you should:
(a). Contact the nearest authorized Clarke repair location or contact the Clarke Service Operations Department, 2100 Highway 265, Springdale, Arkansas 72764, for the nearest authorized Clarke repair location. Only these locations are authorized to make repairs to the product under this warranty.
(b). Return the product to the nearest Clarke repair location. Transportation charges to and from the repair location must be prepaid by the purchaser.
(c). Clarke will repair the product and or replace any defective parts without charge within a reasonable time after receipt of the product.

Clarke's liability under this warranty is limited to repair of the product and/or replacement of parts and is given to purchaser in lieu of all other remedies, including INCIDENTAL AND CONSEQUENTIAL DAMAGES.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SPECIFIED HEREIN. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. NO WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY, SHALL BE IMPLIED. A warranty registration card is provided with your Clarke product. Return the card to assist Clarke in providing the performance you expect from your new floor machine.

Clarke®, 2100 Highway 265, Springdale, Arkansas 72764.

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Clarke® reserves the right to make changes or improvements to its machine without notice.

Always use genuine Clarke® Parts for repair.

2100 Highway 265
Springdale, Arkansas, 72764