

McGRAW-EDISON

Clarke®



READ THIS BOOK

This book has important information for the use and safe operation of this machine. Read this book carefully before starting the machine. Keep this book and tell all operators to read the book. If you do not follow the instructions, you can cause an injury, or damage equipment, furniture or buildings.

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, A McGraw-Edison Co., 2800 Estes Street, Muskegon, Michigan 49441.

**Instruction Book
and Parts List
Floor Maintainer
Model C-1800HS**

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OPERATOR SAFETY INSTRUCTIONS


WARNING


AVERTISSEMENT












ADVERTENCIA



For the safe operation of this machine, read and understand all warnings and cautions. Look for these symbols:

 **WARNING:** If you do not follow the instructions in a WARNING, injury can occur to you or to other personnel.

 **CAUTION:** If you do not follow the instructions in a CAUTION, damage can occur to the machine.

-  1. You must have training in the operation of this machine before using it. READ THE INSTRUCTION BOOK.
-  2. Machines can cause an explosion when operated near flammable materials and vapors. Do not use this machine with or near fuels, grain dust, fine dust, solvents, thinners, or other flammable materials.
-  3. Do not operate this machine unless it is completely assembled.
-  4. Do not use this machine as a step or furniture.
-  5. To prevent electric shock, always remove the electrical plug from the electrical outlet before doing any repairs or maintenance to this machine.
-  6. To prevent injury, always remove the electrical plug from the electrical outlet before changing the brush or pad driver and before leaving the machine.
-  7. Maintenance and repairs must be done by authorized personnel only. Keep all fasteners tight. Keep adjustments according to specifications.
-  9. Always use a three-wire electrical system connected to the electrical ground.
-  10. To prevent damage to the power cord, do not let the turning brush, pad, or pad driver touch the power cord. Always lift the power cord over the machine.
-  11. Make sure that all labels, decals, warnings, cautions and instructions are fastened to the machine. Get new labels and decals from Clarke.
-  12. Water solutions or cleaning materials used with this type of machine can leave wet areas on the floor surface. These areas can cause a dangerous condition for the operator or other persons. Always put CAUTION signs near the area being cleaned.

The Clarke Model C-1800 HS is a floor maintaining machine that can be used for polishing, spraying, buffing, stripping and shampooing. The machine can be used on wood, vinyl, terrazzo or cement floors. Do not use this machine on carpet.

HOW TO PREPARE THE MACHINE FOR OPERATION

WARNING: Disconnect the machine from the power source before installing or removing the brush.

How To Install The Brush Or Pad Driver

To install the brush or pad driver, follow this procedure:

1. Put the handle in the upright position.
2. To lock the handle, push the locking lever down. See figure 1.
3. Tilt the machine backward until the handle is on the floor. See figure 2.
4. Put one foot on each side of the machine. See figure 2.
5. Align the lugs (1) on the locking plate into the drive adapter openings (2). See figure 2.
6. To lock the brush or pad into position turn the brush or pad driver to the left.
7. Turn the brush or pad driver to the right to unlock and remove the brush.
8. Lift the machine to the vertical position.

NOTE: To prevent damage to the brush or pad driver, remove the accessory while not in use. Keep the brush in a cool dry place.

How To Adjust The Handle

To adjust the handle, follow this procedure:

1. The locking lever is on the lower part of the handle tube. See figure 1. Lift the lever with your foot.
2. Lower the handle to the best operating position.

NOTE: For the best operating position, keep your back straight, bend only your arms. See figure 3.

3. Using your foot, push the locking lever down.
4. Hold the handle against your body for the best control.

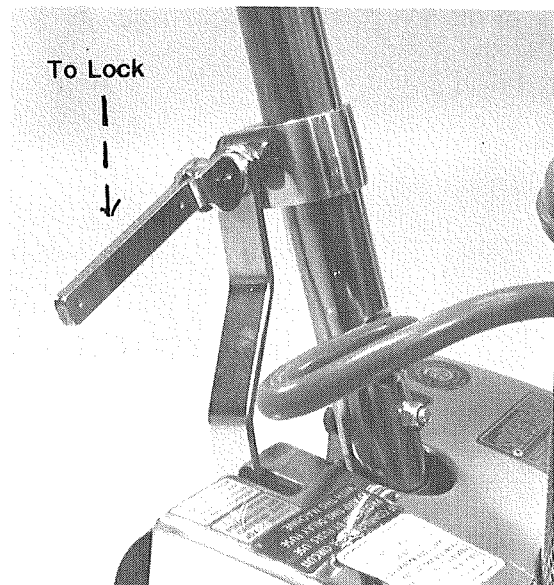


Figure 1
The Locking Lever

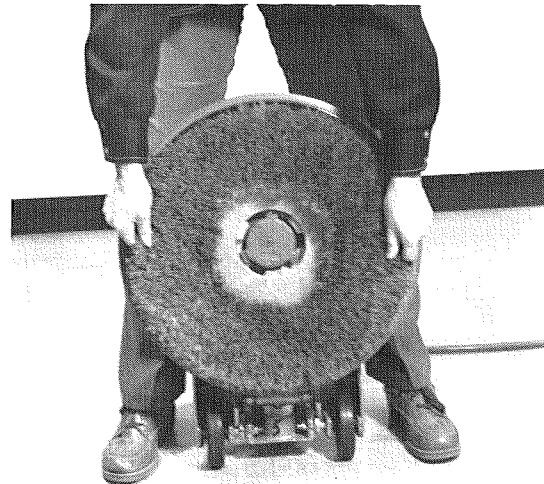


Figure 2



Figure 3
The Best Operating Position

INSTRUCTIONS FOR CONNECTION TO THE POWER SUPPLY AND THE ELECTRICAL GROUND

This 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. 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 pin terminal.

This machine uses a 110 to 120 volts 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 A. If a receptacle connected to the electrical ground as shown in Figure A is not available, use an adapter as shown in Figure C. This adapter must be connected as shown in Figure B to an electrical ground in the electrical outlet. See Figure 5. Make sure you use a plate screw and the ground tab to fasten the adapter.

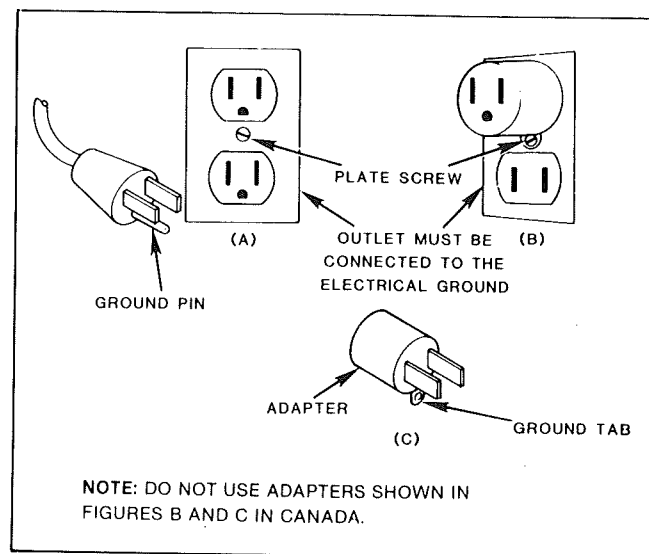


Figure 4

WARNING: Always use this machine with an AC three-conductor electrical system connected to the electrical ground. Replace any worn, cut, or damaged cords. Replace any damaged plugs, receptacles, or connector bodies.

WARNING: For maximum protection against electric shock, use an electrical circuit that is protected by a ground fault circuit interrupter. Get this device from your electrical supplier.

WARNING: Do not cut, remove, or break the ground terminal. Do not try to fit a three-terminal plug into a receptacle or connector body that does not fit the plug. If the receptacle or connector body does not fit the plug, see your Clarke Authorized Dealer to get an authorized person to make the connection.

WARNING: Do not move the machine over an electrical cord. Always lift the cord over the machine.

EXTENSION CORDS

Use only an approved extension cord with three conductors, a plug with three terminals, and a connector body with three holes. This machine has a power cord with wire size 18 AWG (AWG means American Wire Gauge).

WARNING: If you use an extension cord, use an extension cord with minimum wire size 16 AWG.

ACCESSORIES

The following accessories are available for the C-1800 HS.

1. Polishing and waxing brushes.
2. Brushes with natural or synthetic bristles for scrubbing.
3. Brushes with steel wire bristles.
4. Synthetic pad holders.
5. Synthetic pads for polishing, scrubbing, stripping and spray buffing.
6. Lambswool polishing pad.
7. Brushes with metal or wood backs and with holes to let the solution flow through.
8. Solution tank.
9. Spray Buff Accessory - Kit number 440570-0

HOW TO OPERATE THE MACHINE

How To Start/Stop The Machine

⚠ WARNING: Never start a polisher when the handle is in the vertical position.

The switch to start and stop the machine is activated by the levers under the handle grips. See figure 5. To start the machine, follow this procedure:

1. Lower the handle.
2. Lock the handle in the best position for operation.
3. Apply pressure to the levers to start the machine. See figure 6.

How To Control The Machine

The side to side movement of the machine is controlled by lifting the handle and pressing down on the handle. Raise the handle to move the machine to the right. Press down on the handle to move the machine to the left.

MAINTENANCE

The motor is a capacitor-induction type motor. A capacitor-induction type motor does not require motor brushes.

If repairs to the gear unit or motor are needed, do not disassemble the gears and motor. Return the machine to the nearest Clarke Service Branch.

For safe operation, and longer life of your Clarke product, use only genuine Clarke parts.

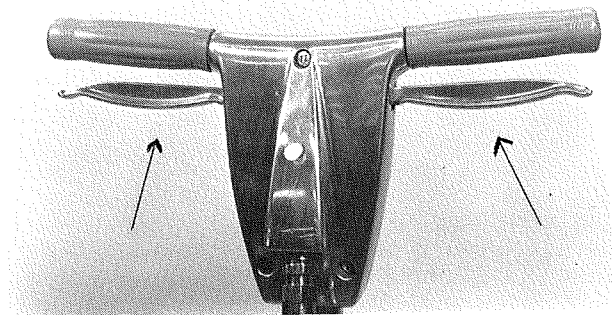


Figure 5
The Start/Stop Levers

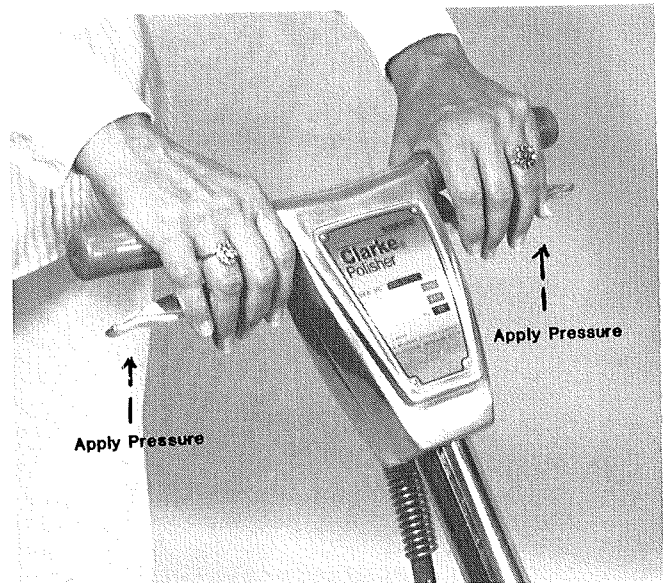
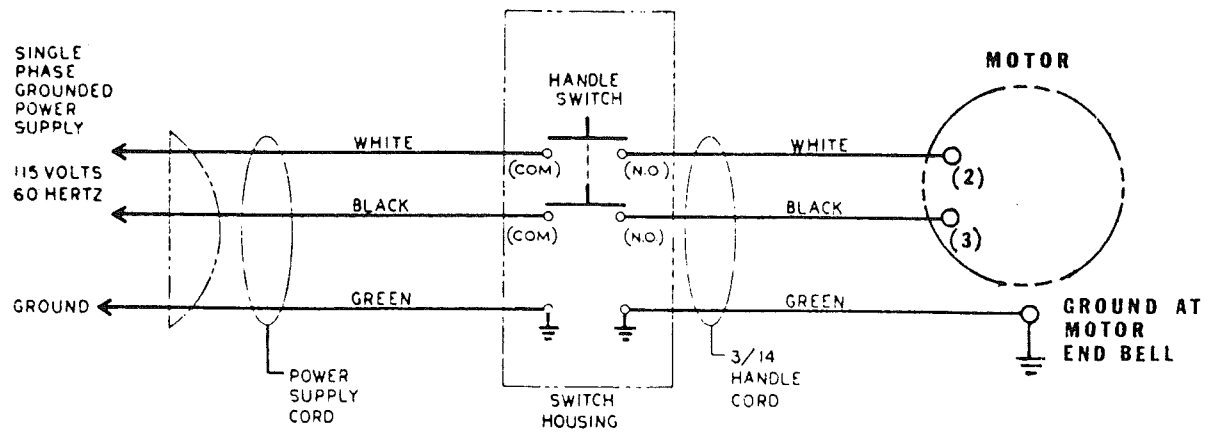


Figure 6

CLARKE MODEL C-1800HS

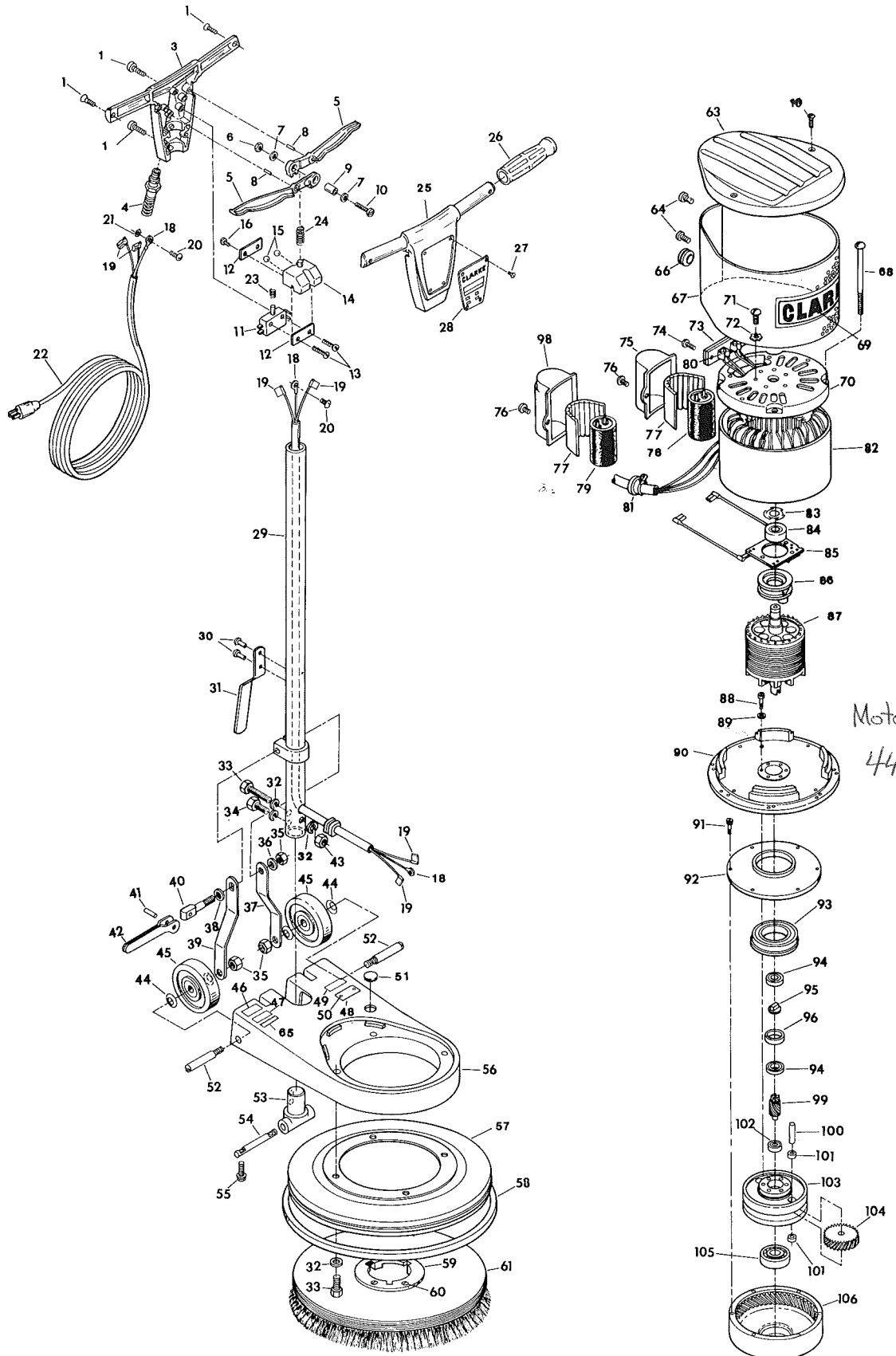
Wiring Diagram



WARNING: All electrical repairs must be performed by qualified personnel only.

CLARKE® MODEL C-1800 HS

DRAWING



CAUTION - Repairs by qualified personnel only.
 ACHTUNG - Reparaturen nur durch Facharbeiter.
 PRECAUTION - Reparations par personnel spécialisé seulement.
 PRECAUCION - Unicamente personal calificado deberian hacer reparaciones.

CLARKE® MODEL C-1800 HS

PARTS LIST

Ref. No.	Code No.	Description	Qty
1	962487-5	Screw - 1/4-20x3/4 Mach	5
2			
3	442312-5	Cover - Switch Housing Rear	1
4	467504-7	Strain - Relief	1
5	445174-6	Lever - Switch	2
6	920296-1	Nut - 10-24 Hex	1
7	980643-1	Washer - 10 Plain	2
8	925189-3	Pin - 3/16"x1" Dowel	2
9	508204-5	Spacer - Switch Lever	1
10	962794-4	Screw - 10-24x1	3
11	911690-6	Switch	1
12	446695-9	Plate - Ball Lock	2
13	962212-7	Screw - 6-32x7/8 Drive	2
14	440296-2	Adapter - Switch Lock	1
15	441395-1	Ball Switch Lock	1
16	962697-9	Screw - 6-00x1/2 Pn-St	2
17			
18	911933-0	Terminal Clip	3
19	911594-0	Terminal Clip - Slip-on	4
20	962065-9	Screw - 8-32 Pn-St	2
21	980621-7	Washer - Lock 5/16 External Tooth	2
22	909014-3	Cord Assembly	1
23	448395-4	Spring - Switch Lever	1
24	448398-8	Spring - Compression	1
25	444295-0	Housing - Switch Front	1
26	503702-3	Grip - Handle	2
27	962282-0	Screw - 3/16 Rd St Drive	4
28		Plate - Serial Number	1
29	449071-0	Tube - Handle	1
30	930107-8	Pop Rivet	2
31	414552-0	Cord Hook	1
32	980652-2	Washer - 5/16" Lock	7
33	962891-8	Screw - 5/16"-18-2" Hex Hd.	5
34	962158-2	Screw - 5/16"-18x7/8" Hex Hd.	1
35	920248-2	Nut - 3/8"-16 ESNA Light	3
36	980645-6	Washer - 3/8" Plain	1
37	440302-8	Link Arm L.H.	1
38	980349-5	Washer - Wear	1
39	440301-0	Link Arm - R.H.	1
40	441301-9	Bolt - Locking Cam	1
41	925592-8	Pin - 1/4x1 Spirol	1
42	461404-6	Cam - Locking	1
43	920110-4	Nut - 5/16"-18 Elastic Stop	1
44	980681-1	Washer - Wave	4
45	419752-1	Wheel	2
46	215110-8	Label - Caution Spanish	1
47	215103-3	Label - Caution	1
48	446303-0	Plate - Fire Warning	1
49		Label - Inspection	1
50	930074-0	Rivet - 1/8 Diameter Closed End	2
51	411370-0	Plug Button	1
52	437761-0	Shaft Wheel	2
53	449201-3	Tongue Handle	1
54	447702-2	Shaft Tongue Pivot	1
55	962830-6	Screw - 1/4"x20x1 Hex	2

Ref. No.	Code No.	Description	Qty
56	443201-9	Frame - Main	1
57	447831-9	Shield	1
58	441272-2	Bumper	1
59	466616-0	Locking Plate	1
60	962427-1	Screw - 12-00x1 Ft St Wood	3
61	410974-0	Brush Assembly	1
62			
63	442371-0	Cover Drip	1
64	962731-6	Screw - 8-00x1/2 Pn St	2
65	815160-7	Label - Fuse Delay	1
66	611101-7	Bushing - Heyco	1
67	448571-0	Shroud - 1 1/2 HP Motor	1
68	961019-7	Screw - Rd Hd	4
69	505106-5	Label - Clarke	1
70	442970-0	End Bell	1
71	962333-1	Screw - 10-32x1/4 Pn St	1
72	980603-5	Washer - Shakeproof 1110	1
73	912320-9	Terminal Board Assembly	1
74	962727-4	Screw - 8-32x1/2 Pn St	2
75	442374-5	Cover - Capacitor	1
76		Screw 10-24 Self Tapping	4
77	414870-6	Insulation	2
78	442474-3	Capacitor	1
79	442475-0	Capacitor	1
80	419270-4	Terminal Board	1
81	737502-5	Strain - Relief	1
82	448572-8	Stator Complete	1
83	980217-4	Washer - Wave	1
84	902550-3	Ball Bearing	1
85	448307-4	Stationary Switch	1
86	912321-7	Centrifugal Switch	1
87	448572-8	Rotor Complete	1
88	962966-8	Screw - 10-32x1/2 Sc St	6
89	980650-6	Washer - Lock	6
90	440272-3	Adapter - Gear End	1
91	962967-6	Screw - 10-32x3/4 Sc St	6
92	442372-9	Cover - Rotating	1
93	902736-8	Bearing - Upper Housing	1
94	902606-3	Bearing	2
95	442473-5	Coupling	1
96	448277-2	Bearing - Spacer	1
97			
98	442375-2	Cover - Capacitor	1
99	447074-6	Pinion	1
100	447771-7	Shaft - Idler	2
101	902737-6	Bearing - Needle	4
102	902735-0	Bearing	1
103	444273-7	Housing - Idler Gear	1
104	443574-9	Gear - Planet	2
105	902573-5	Bearing	1
106	444272-9	Housing - Drive	1

CLARKE® WARRANTY

This Clarke Industrial/Commercial Floor 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 and motor brushes.

If a difficulty develops with the product, you should:

- (a). Contact the nearest authorized Clarke repair location or contact the Clarke Customer Service Department, 2800 Estes Street, Muskegon, Michigan 49441, 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 purchasers 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 ON 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 floor machine. Return the card to assist Clarke in providing the performance you expect from your new floor machine.

CLARKE, A MCGRAW-EDISON COMPANY, 2800 Estes Street, Muskegon, Michigan 49441.

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

For best results, use only the correct Clarke Service parts.



Clarke®

**A McGraw-Edison Company
2800 Estes Street
Muskegon, Michigan 49441**

Company Owned Sales and Service Branches in Principal Cities