

PRICE \$3.00

**Beginning with
Serial No. BF**

Clarke®



READ THIS BOOK

This book has important information for the use and safe operation of this machine. Read and understand this book 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, 2100 Highway 265, Springdale, Arkansas 72764.

Instruction Book and Parts List Sander 16

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

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

-  **WARNING:** You must have training in the operation of this machine before using it. **READ THE INSTRUCTION BOOK.**
-  **WARNING:** Machines can cause flammable materials and vapors to burn. Do not use this machine with or near matches, fuels, grain dust, solvents, thinners, or other flammable materials.
-  **WARNING:** Do not operate this machine unless it is completely assembled.
-  **WARNING:** Do not use this machine as a step or furniture.
-  **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 electrical contractor.
-  **WARNING:** To prevent injury, always remove the electrical plug from the electrical outlet before changing the sandpaper, leaving the machine or doing any maintenance to this machine.
-  **WARNING:** To prevent damage to the power cord, do not let the sanding pad, pad driver, or wheels touch the power cord when the machine is running. Always lift the power cord over the machine.
-  **WARNING:** Keep the electrical parts of the machine dry. For storage, keep the machine in a dry building.
-  **WARNING:** Maintenance and repairs must be done by authorized personnel only.
-  **WARNING:** Keep all fasteners tight. Keep adjustments according to specifications.
-  **WARNING:** Make sure all labels, decals, warnings, cautions and instructions are fastened to the machine. Get new labels and decals from Clarke.
-  **WARNING:** To prevent a fire or an explosion, use a hammer and punch to set all nails so that the sanding disc will not touch the nails.
-  **WARNING:** Precaution should be taken during the use of a floor sanding machine to prevent formation of a combustible mixture of flyings and air. A floor sanding operation should be conducted only in a well-ventilated area.



THE SANDER 16

The Sander 16 is a floor sanding machine. Use the sander on wood, cork or composition floors only. Operate the machine by moving it from side to side.



CAUTION:

To prevent serious damage to the floor surface, make sure the machine is always moving when the machine is in operation and the sanding pad is in contact with the floor.

THE CONTROLS

The Lever To Release The Handle. See figure 1.
The locking lever is on the lower part of the handle tube.

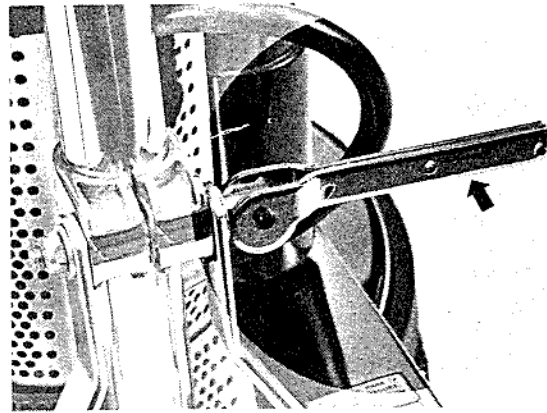


Figure 1

The Levers to Activate The Switch And Start The Machine. See figure 2.

The levers to activate the switch and start the machine are under the handle grips.

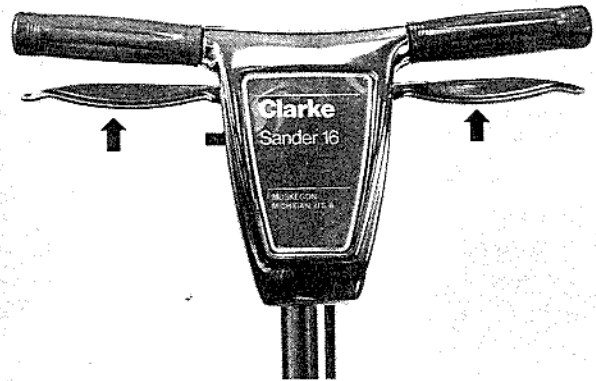



Figure 2

The Interlock Button. See figure 3.

The interlock button is below the lever on the right side of the machine. The switch to start/stop the machine is activated by the interlock switch and the levers under the handle grip.

 **WARNING: Control the safety interlock with hands only.**

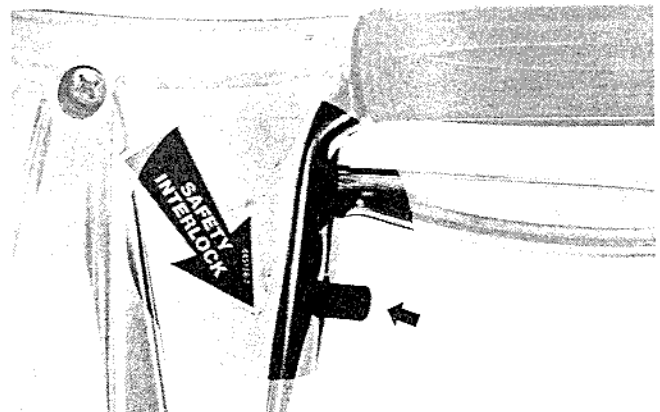


Figure 3

The Sandpaper Holder. See figure 4.

The holder is on the bottom of the sanding pad.

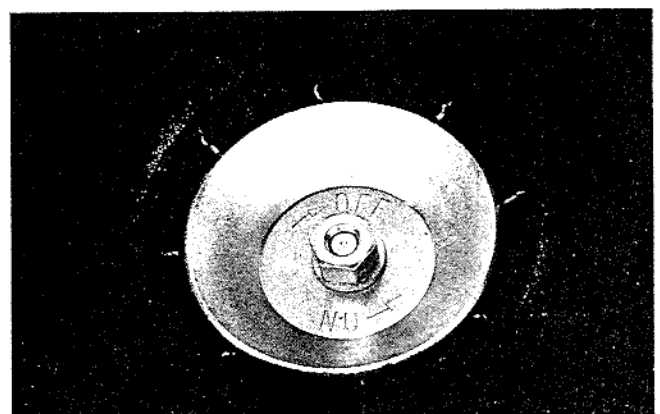


Figure 4

HOW TO PREPARE THE MACHINE FOR OPERATION

WARNING: Always remove the electrical plug from the electrical outlet before installing the sandpaper.

How To Install The Sandpaper

To install the sandpaper, follow this procedure:

1. Put the handle in the upright position.
2. Lock the handle. To lock the handle, push the locking lever down. See figure 5.
3. Tilt the machine backward until the handle is on the floor (1). See figure 6.
4. Put one foot on each side of the machine (2). See figure 6.
5. Using a 7/8 wrench, remove the nut and the washer that hold the paper holder (3). See figure 6.
6. Put the sandpaper in position on the sanding pad.
7. Put the paper holder in position. See figure 7.
8. Install the washer and the nut that hold the paper holder. See figure 8.

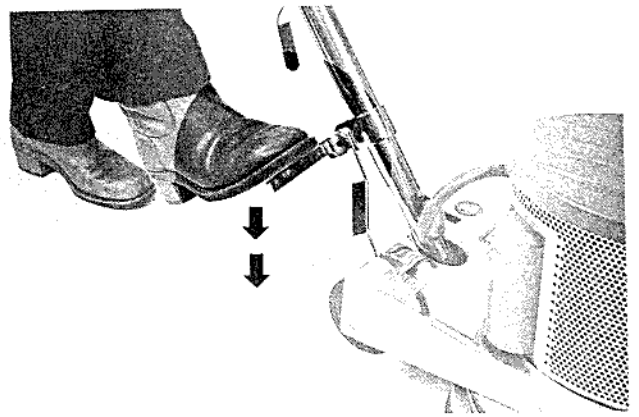


Figure 5

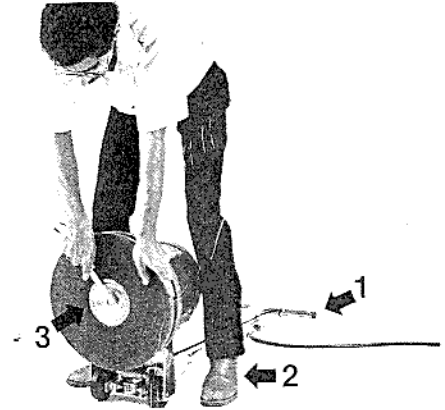


Figure 6

Types of Sandpaper To Use

For removing surface coatings such as varnish, stain, wax polishes, etc., from old floor, use Grit 4 1/2-12 Extra Coarse Sandpaper.

For fast leveling of uneven floors, use Grit 3 1/2-20 Coarse Sandpaper.

CAUTION: Do not use 3 1/2-20 sandpaper on a new even floor.

For first sanding of new wood floors. Use Grit 2-36 Medium Sandpaper.

For second sanding of old wood floors, use Grit 2-36 Medium Sandpaper.

For final sanding of new or old wood floors, use Grit 0-80 Fine Sandpaper.

For final sanding of any floor where a very good finish is needed, use Grit 2/0-120 Extra Fine Sandpaper.

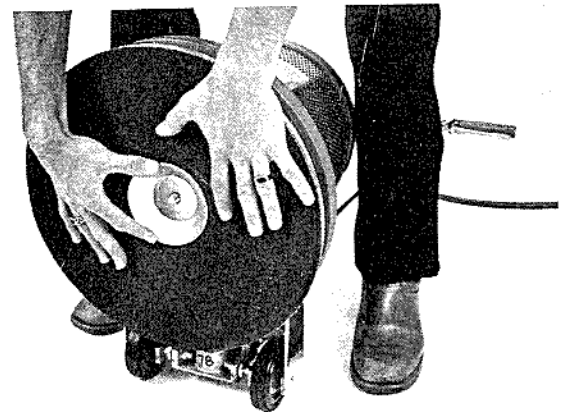


Figure 7

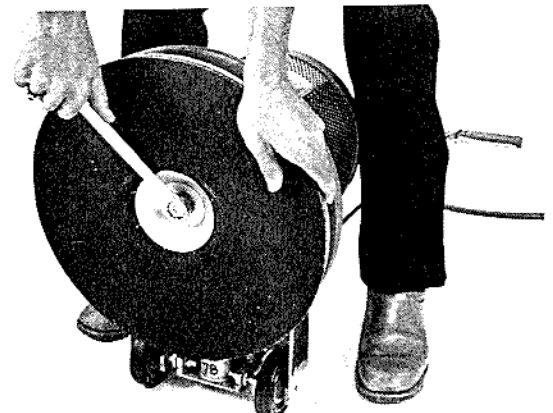


Figure 8

How To Adjust The Handle

To adjust the handle, follow this procedure:

1. The locking lever is in the lower part of the handle tube. Lift the lever with your foot. See figure 9.

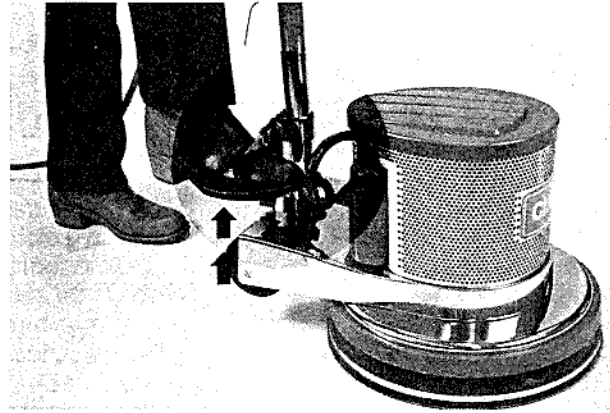


Figure 9

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

2. Lower the handle to the best operating position. See figure 11.
3. Using your foot, push the locking lever down. See figure 10.

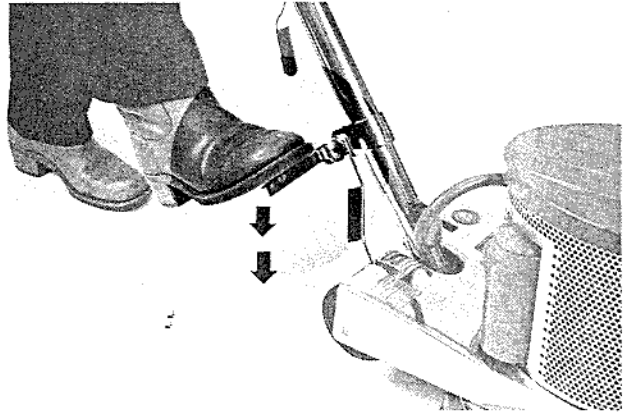


Figure 10



WARNING: Before operating the machine, make sure the handle is locked into position.

4. Hold the handle against your body for the best control. See figure 11.



Figure 11

120 VOLT MACHINES

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. 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 12. If a receptacle connected to the electrical ground as shown in Figure 12 is not available, have one installed by an electrical contractor. Do not use an adapter.

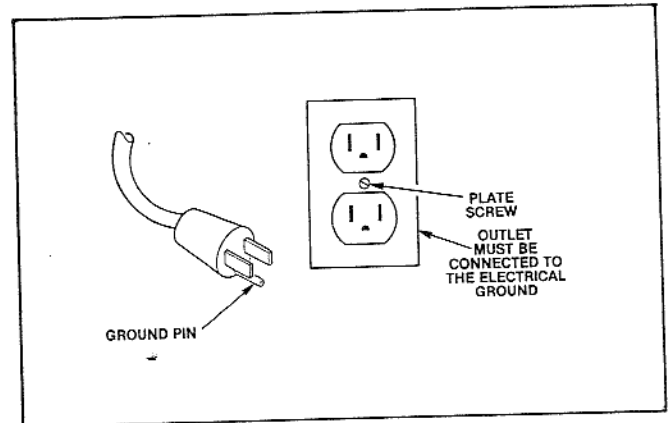


Figure 12

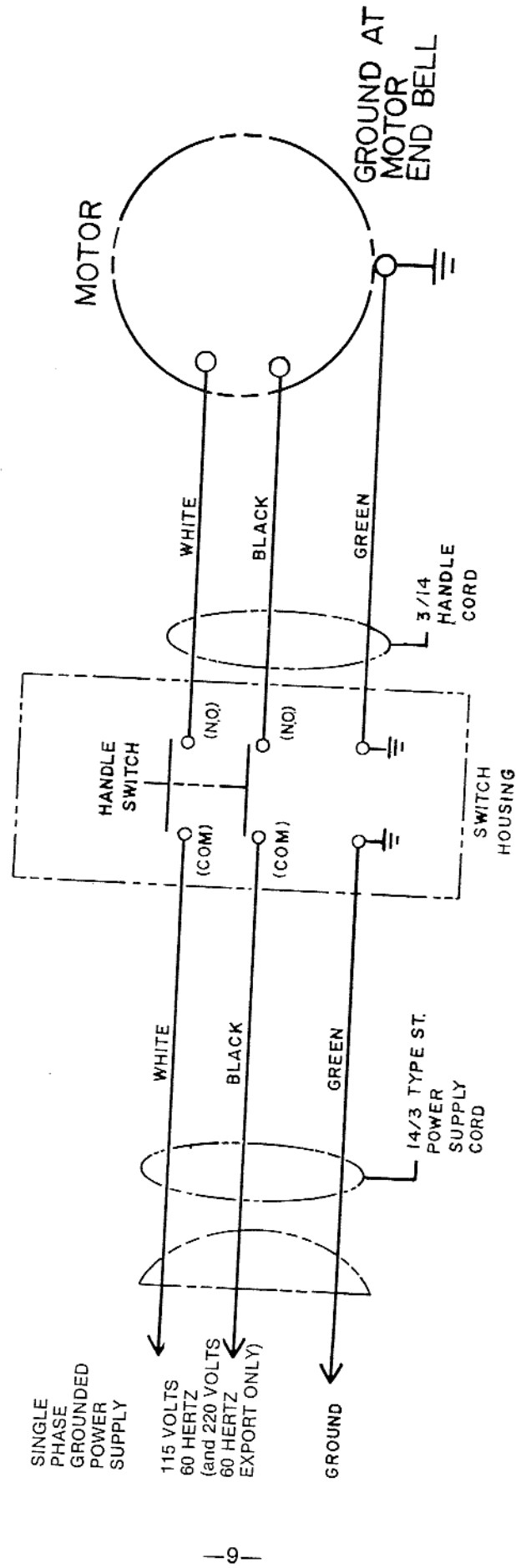
- ⚠ WARNING:** To prevent possible electric shock, protect the machine from rain. Keep the machine in a dry building.
- ⚠ WARNING:** To prevent possible electric shock, always use a 3-wire electrical system connected to the electrical ground. For maximum protection against electrical shock, use a circuit 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 12 AWG. Do not use an extension cord longer than 50 feet. Do not join two extension cords.

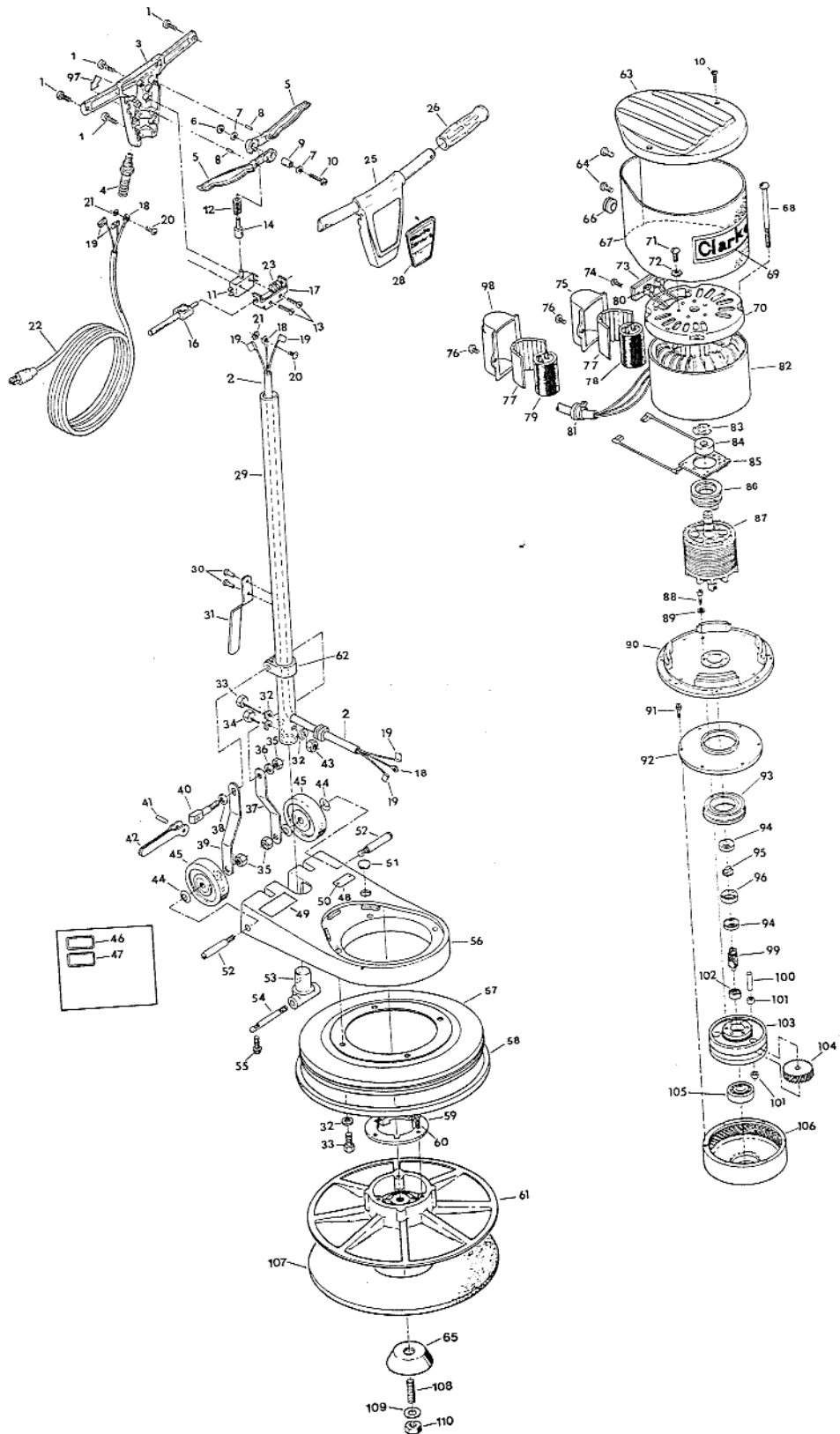
CLARKE® Model Sander 16
Wiring Diagram 9/85



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



CLARKE® Model Sander 16 Drawing 9/85



CLARKE® Model Sander 16
Parts List 9/85

Ref. No.	Code No.	Description	No. Req'd.
1	2487-5	Screw - 1/4-20 x 3/4 Fs. St Mach	5
2	9022-6	Cord Assembly	1
3	2376-0	Cover - Switch Housing Rear	1
4	7502-5	Strain Relief	1
5	5174-6	Lever - Switch	2
6	0296-1	Nut - #10-24 Elas.	1
7	0982-3	Washer - #10 Plain STL	2
8	5189-3	Pin - 3/16 x 1" Dowel	2
9	3204-5	Spacer - Switch Lever	1
10	2794-4	Screw - 1/4-20 x 1 Pan ST	3
11	1690-6	Switch	1
12	912A-4	Spring	1
13	2980-9	Screw - 6-32 x 1 Pan ST Mach	2
14	0202-0	Adapter - Switch Lock	1
15			
16	8573-6	Stop - Switch Interlock	1
17	0873-8	Bracket - Switch Stop	1
18	1933-0	Terminal Clip	3
19	1594-0	Terminal Clip	4
20	2065-9	Screw - 8-32 x 1/4 Pn ST	2
21	0621-7	Washer - #1108 Shakeproof	2
22	9014-3	Cord Assembly - Power 50 Ft.	1
23	900A-8	Spring - Switch Lever	1
24			
25	4274-5	Housing - Switch Front	1
26	3702-3	Grip - Handle	2
27			
28	271A-7	Label - Switch Housing	1
29	0071-0	Tube - Handle	1
30	0005-4	Rivet - 5/32 x 3/8 Pop	2
31	4552-0	Hook - Cord	1
32	0652-2	Washer - 5/16 Lock	7
33	2891-8	Screw - 5/16-18 x 2 Hex Flt Hd	5
34	2158-2	Screw - 5/16-18 x 7/8 Hex	1
35	0248-2	Nut - 3/8-16 Esna Light	3
36	0645-6	Washer - 3/8 Plain	1
37	0302-8	Arm Link - L.H.	1
38	0349-5	Washer - Wear	1
39	0301-0	Arm Link - R.H.	1
40	1301-9	Bolt - Locking Cam	1
41	5592-8	Pin - 1/4 x 1 Spirol	1
42	1404-6	Cam - Locking	1
43	0110-4	Nut - 5/16-18 Elas. Stop	1
44	0681-1	Washer - Wave	4
45	9752-1	Wheel	2
46	5110-8	Label - Caution Spanish	1
47	5103-3	Label - Caution	1
48	6359-8	Plate - Fire Warning	1
49		Serial Plate	1
50	0074-0	Rivet - 1/8 Diameter Closed End	2
51	11370-0	Plug - Button	1
52	7761-0	Shaft - Wheel	2
53	9201-3	Tongue - Handle Tube	1
54	7702-2	Shaft - Tongue Pivot	1
55	2830-6	Screw - 1/4 x 20 x 1 Hex ST	2

Ref. No.	Code No.	Description	No. Req'd.
56	443201-9	Frame - Main	1
57	447821-0	Shield - Brush	1
58	441271-4	Bumper - 16" Frame	1
59	466616-0	Locking Plate	1
60	962098-8	Screw - 1/4-20 x 3/4	3
61	466110-4	Adapter - Plate	1
62	442001-4	Clamp - Handle Tube	1
63	442371-0	Cover - Drip	1
64	962731-6	Screw - 8-00 x 1/2 Pn Typ A	2
65	467204-4	Retainer - Paper	1
66	611101-7	Bushing - Heyco	1
67	448571-0	Shroud - Motor 1 1/2 HP	1
68	961019-7	Screw - Rd Hd	4
69	73270A-8	Label - Clarke	1
70	53502A-0	End Bell	1
71	962333-1	Screw - 10-32 x 1/4 Pan	1
72	980603-5	Washer - #1110 Shakeproof	1
73	912320-9	Terminal Board Assembly	1
74	962727-4	Screw - 8-32 x 1/2 Pan ST	2
75	912099-9	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	448507-4	Stationary Switch	1
86	912321-7	Centrifugal Switch	1
87	447572-9	Rotor - Complete	1
88	962966-8	Screw - 10-32 x 1/2 Sc Set Cap	6
89	980650-6	Washer - Lock	6
90	53503A-9	Adapter - Gear End	1
91	962967-6	Screw - 10-32 x 3/4 Sc St Cap	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	448272-5	Spacer - Bearing	1
97	445178-7	Label - Switch Interlock	1
98	52702A-0	Cover - Capacitor	1
99	447071-2	Pinion	1
100	447771-7	Shaft - Idler	2
101	902737-6	Bearing - Needle	6
102	902735-0	Bearing	1
103	444271-1	Housing - Idler Gear	1
104	443572-3	Gear - Planet	3
105	902573-5	Bearing	1
106	444272-9	Housing - Drive	1
107	465904-1	Pad - Sanding	1
108	468422-1	Stud - Paper Retaining	1
109	980648-0	Washer - 17/32 x 3/32 x 1/16	1
110	920236-7	Nut - 1/2-13 Heavy Hex	1

58665A
Cost 1.54

HOW TO OPERATE THE MACHINE

How To Start/Stop The Machine

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

The switch to start and stop the machine is activated by the interlock switch, and the levers under the handle grips. See figure 13. To start the machine, follow this procedure:

1. Release the handle locking lever. See figure 14.
2. Lower the handle.

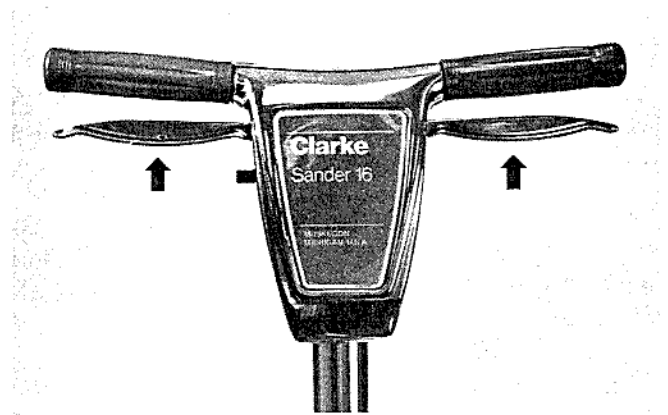


Figure 13

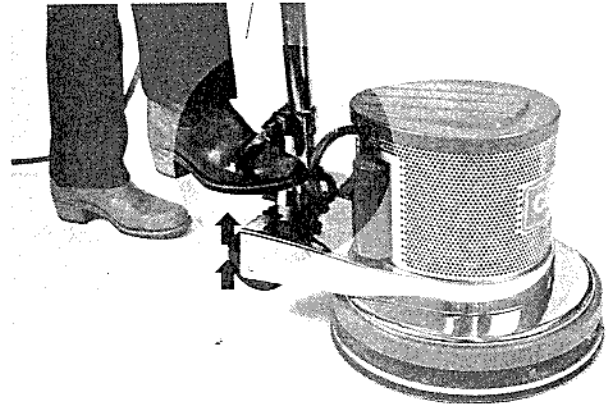


Figure 14

3. Lock the handle in the best position for operation. See figure 15.

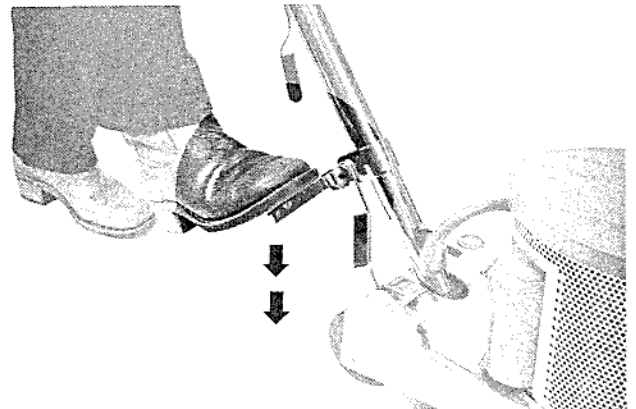


Figure 15

4. Push the interlock switch and apply pressure to the levers. See figure 16.

⚠ WARNING: Control the safety interlock switch with hands only.

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. Lift up a little on the handle to move the machine to the right. Press down a little on the handle to move the machine to the left.



Figure 16

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 Authorized repair location.

Take the machine to the nearest Clarke Authorized repair location once a year for a maintenance inspection.

CLARKE PRODUCT SUPPORT BRANCHES

For parts or service, contact a Clarke Authorized Service Center or a Clarke Emergency Parts Depot.

COLORADO - Denver 80211

4640 Lipan
(303) 455-2413

ILLINOIS - Elk Grove Village (Chicago) 60007

2280 Elmhurst Road
(312) 956-7900

TEXAS - Houston 77040

7215 North Gessner Road
(713) 937-7717

CANADA - Rexdale (Toronto, Ontario)

24 Constellation Ct.
(416) 675-5830

NEW JERSEY - Rutherford 07070

71 Union Ave.
(201) 460-4774

GEORGIA - Marietta (Atlanta) 30067

American Business Center
1395 Marietta Parkway, Bldg. 200, Suite 203
(404) 427-1351/52



CLARKE - World Headquarters

St. Louis, Missouri

CLARKE - Customer Service Headquarters and Factory

2100 Highway 265
Springdale, Arkansas 72764
(501) 750-1000

Key:

- ▲ Customer Service Headquarters and Factory
- ★ World Headquarters
- Emergency Parts Depots
- Regional Office and Training Centers

Clarke® 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 and motor brushes.

If a 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.

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



Always use genuine Clarke Parts for repair.

Clarke®

2100 Highway 265
Springdale, Arkansas, 72764

