

## MAINTENANCE AND OPERATION INSTRUCTIONS — PARTS LIST

# Clarke

## MODEL R-8 FLOOR SANDER

**ELECTRIC CURRENT:** Make sure that the cycle and phase of your current supply are the same as that stamped on motor name plate. If motor is of brush type, it will operate on DC or AC current of 25 to 60 cycles on 110 volts. Do not tamper with wires inside of switch box.

To plug in trailing cord, press connector in switch box socket. Then turn right, which locks it in place. Check switch to see that it is in the OFF position before plugging into wall outlet. To disconnect cord, turn connector body left and pull out. For longer extensions use #12 cable. Use 30 ampere fuses in meter box to prevent blowing the fuse.

**LUBRICATION:** All moving parts of the Kwiksander are mounted on ball bearings. The ball bearings in motor, drum and fulcrum wheels are of the metal seal type and are packed with grease by the ball bearing manufacturer, to last the life of the bearings.

The bearings in the fan housing are of metal shield type and are packed in grease. Remove pipe plug at hub and regrease frequently to keep the chamber half filled. Also, a little oil or grease on swivel part of dust pipe will prevent pipe from sticking.

**DRUM ADJUSTMENT:** The drum is properly adjusted at the factory and should require no further attention. If drum gets out of adjustment, check as follows:

**ALIGNMENT OF DRUM:** Place the KWIKSANDER on a level surface. With motor stopped, let drum down on surface. First tighten screws in formed washers at top of each drum suspension arm until arm starts to compress rubber pad against bracket. Raise drum from surface, start motor, and sand a strip. If drum cuts too heavily on one side, raise drum at that end by tightening screw until drum sands evenly. Do not tighten screws too much as this will compress rubber pads to such an extent that they lose their shock absorbing qualities. For any major alignment of drum, tilt machine back, so that handle rests on floor and remove belt guard. This will enable operator to reach the adjusting set screws which hold one end of the wheel shaft in place.

Lower wheel shaft if drum bears too heavily on belt guard side and raise shaft if bearing is on opposite side. When the drum has been correctly aligned, be sure that both set screws are tight to prevent them from coming loose while machine is being operated.

An excellent way to determine definitely whether or not drum is cutting evenly is to feel of the sand-paper immediately after a five minute run. If the paper is warmer on one end than on the other, that end is cutting heavily.

**TO REPLACE INTERCHANGEABLE DRUM COVER:** First remove six screws in cover unit. (Four screws are located next to the cam slot and two are opposite, all are imbedded in the sponge rubber.) Then remove the nut and screw in the loop on each end of the drum cover unit. The cover unit can then be lifted off. In-

stall new cover unit, fastening the screws in the drum next to the cam slot first. Then draw the cover together by inserting the screws in loops and tightening. Now replace screws on opposite side to cam slot. If drum vibrates remove cover unit and reverse.

**OPERATION:** Before sanding, sweep floor clean and be sure that no nails stuck up which might tear paper and rubber covering on drum. If nails, paper, cloth, etc., are picked up by machine, it may damage the suction fan and clog the dust system. Before operating machine, be sure to read the operating instructions attached to motor of machine.

Never start motor when drum is in contact with the floor. Pulling up on handle increases drum pressure thus removing more stock. A little experience will show you what pressure is best and the least tiresome. Never allow drum to rest on floor while KWIKSANDER is not in use. This may produce a flat spot on drum which will cause chatter marks. The machine is so designed that it will remain in a tilted position with the drum off the floor, when tilted back.

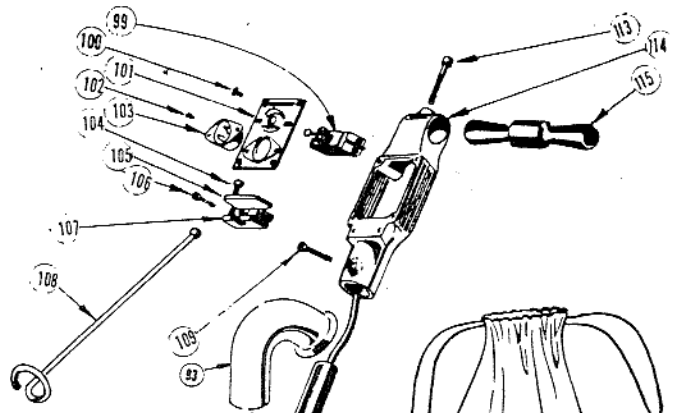
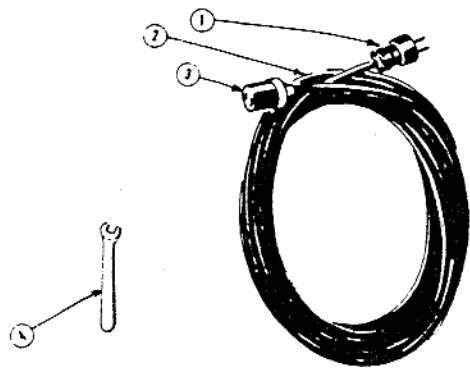
Always sand with the grain unless the floor is exceptionally rough and covered with many old finished coats. With either of these conditions, you may sand diagonally across the grain at a 45° angle. Do not sand at right angles to the grain. While the KWIKSANDER sands very close to the baseboards, there is a small space which will have to be hand sanded, unless you have a Porter-Cable Disc Edger, type E-17, BE-7, or E-8, which will do this.

**DUST COLLECTING SYSTEM:** The dust pan is so set, that when drum rests on floor, the edge of the dust pan is 1/8" off the floor. This pan is adjustable by means of a conical point screw which comes in contact with one side of dust pan. Turning screw to right lowers pan and to left, raises the pan.

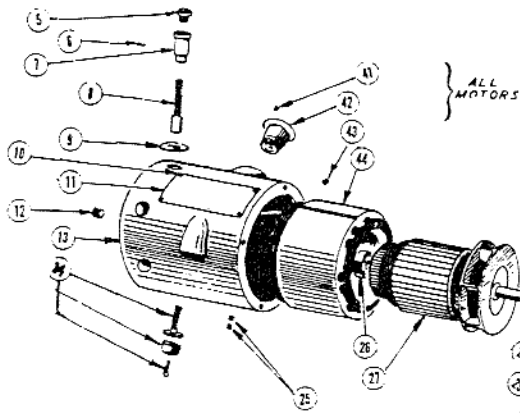
Should the dust collecting system fail to collect dust properly: (1) Remove bag and clean it thoroughly. In time the pores become clogged and prevent air circulation. If so, it should be replaced with new bag. (2) See that the fan belt is tight enough to drive fan. This fan belt is automatically taken up by a spring tension idler pulley; but should the belt be stretched too long, replace with new one. Replace with KWIKSANDER belts only.

If the trouble is not with the bag or belts, then inspect the dust pan and air duct by laying the machine back so that the handle rests on floor. The air duct can be readily cleaned out by swinging dust pan back. If this is not the trouble, remove belt guard and remove the four screws that hold fan housing to the frame. Remove fan assembly. Inspect air duct and clean out if clogged. If fan is damaged, replace with a new one. The entire unit can be exchanged or fan can be replaced by removing nut on shaft. If fan bearings become worn and noisy, have unit repaired by your nearest CLARKE SERVICE BRANCH.

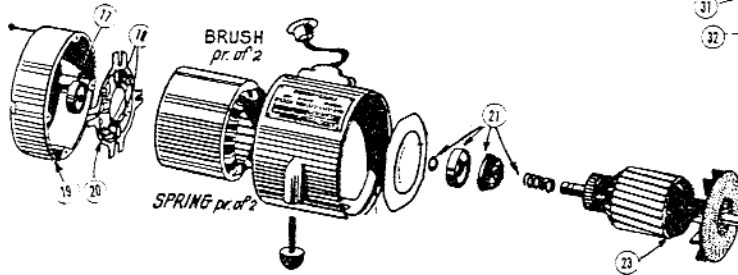
Clarke SANDING MACHINE CO., MUSKEGON, MICHIGAN



UNIVERSAL MOTOR PARTS



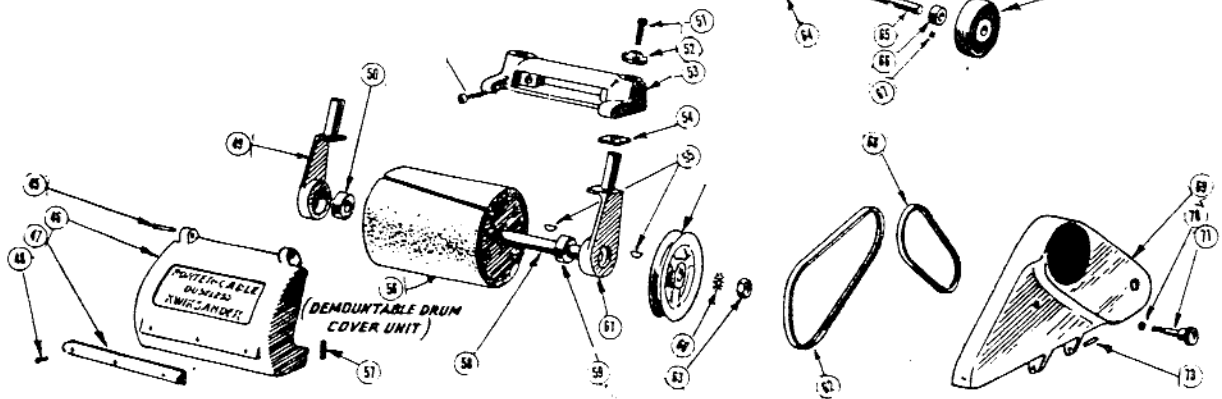
ALL MOTORS



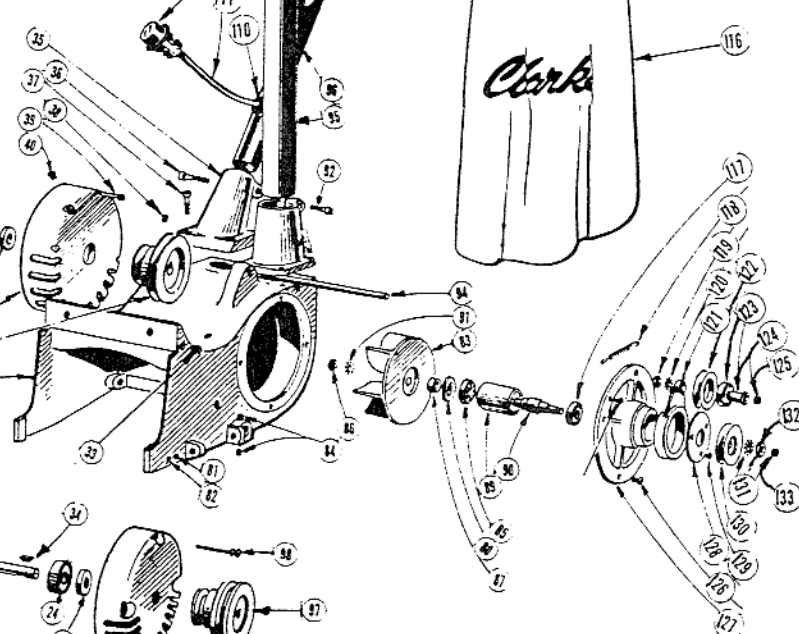
BRUSH  
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SPRING  
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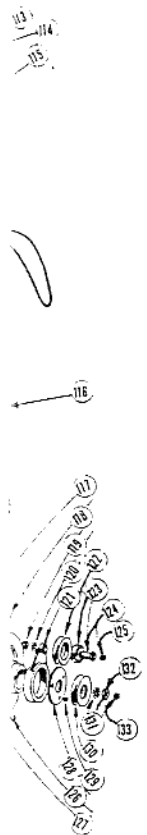
PEERLESS MOTOR PARTS



DEMOUNTABLE DRUM  
COVER UNIT



Item No.	Part No.	Description	Item No.	Part No.	Description
1	911142	46-D Plug	69	083605	5R-8-1 Belt Guard
2	908681	10-YX Cord Assy.	70	980280	44F-87 Washer
3	911049	2218E-1 Twist Lock Body	71	960385	24YR-8 Belt Guard Lock Screw
4	987108	2375-K Open End Wrench	72	089704	56F-7 Wheel
5	081504	41R-8 Brush Cap	73	925148	891-X Pin
6	969334	629-X Screw	74	087708	21R-8 Dust Pan Shaft
7	084004	39R-8 Brush Holder	75	088303	19R-8 Dust Pan Tension Spring
8	080902	40R-8 Motor Brush	76	960385	24R-8 Dust Pan Control Stud
9	980965	385-X Brush Holder Washer	77	080312	12R-8 Dust Pan Tension Arm
10	969410	1520-X Screw	78	962159	Screw 159
11	086302	42R-8 Plate	79	962159	Screw 159
12	106804	166-X Plug	80	147604	600-XA Seal
13	084204	35R-8 Motor Housing	81	962388	Screw 388
14	081204	351YG-8 Rubber Bumper Screw	82	925120	Pin 21
17	902019	532-X Bearing	83	083004	6SW-8 Intake Fan
18	080904	78R-8 Motor Brush	84	962292	Screw 292
19	087820	82R-8 Endshield	85	902581	Brg. 764
20	088307	79R-8 Brush Spring	86	920034	442-X Nut
21	082412	80R-8 Centrifugal Switch	87	088206	29J-7 Fan Spacing Collar
22	027605	1083-X Seal	88	962194	Screw 194
23	080412	83R-8 Armature Assy.	89	021107	23J-7 Fan Drive Shaft Bushing
24	902019	532-X Bearing	90	087716	24J-7-1 Fan Shaft
25	Not Available	1300-X Screw	91	980666	Washer 66
26	902586	Bearing 783	92	962258	Screw 258
27	080408	37R-8 Armature Assy.	93	082804	102J-7 Swivel Elbow
28	902018	523-XA Bearing	94	086704	23R-8 Motor Hinge Pin
29	027605	1083-X Seal	95	089002	105J-7 Dust Tube
30	087812	36R-8 Endshield	96	089004	101-SW Handle Tube
31	086903	13R-8 Motor Pulley	97	086903	13R-8 Motor Pulley
32	083204	1R-8-1 Main Frame	98	969373	841-X Screw
33	024601	1651-X Insert	99	911374	2865L-1 Switch
34	915036	Key 29	100	962267	Screw 267
35	080809	25R-8 Bracket, Handle	101	082306	27R-8 Switch Cover
36	962300	Screw 300	102	962065	Screw 65
37	962242	Screw 242	103	911015	3301-D Twist Lock Base
38	962103	Screw 103	104	962268	Screw 268
39	969373	841-X Screw	105	142009	47AJ-7 Trailing Wire Bracket Clamp
40	106804	166-X Plug	106	962268	Screw 268
41	962036	Screw 36	107	140824	48AJ-7 Trailing Wire Bracket
2	911350	486-X Socket	108	083808	21YJ-7 Guide & Ball Assy.
3	962103	Screw 103	109	969374	848-X Screw
44	083108	38R-8 Field Assy.	110	083804	1013-X Grommet
45	925512	Pin 18	111	908672	765-X Handle Cord
46	083616	10R-8 Drum Guard	112	911256	487-X Plug
47	141204	45F-89 Drum Guard Bumper	113	962378	Screw 378
48	962025	Screw 25	114	080806	18R-8 Handle Bracket
49	080304	8-R-8 Arm Right	115	083909	32R-8 Cross Handle Grip
50	902583	Brg. 780	116	160608	8EC-207 Dust Bag
51	962300	Screw 300	117	902567	Bearing 764
52	980376	22R-8 Drum Tension Washer	118	088306	38J-7 Fan Belt Tension Spring
53	080803	7R-8 Drum Bracket	119	920204	Nut 53
54	980320	28J-7 Drum Arm Rubber Washer	120	980666	Washer 66
55	915036	Key 29	121	080316	22J-7 Idler Pulley Arm
56	082312	34YR-8 Demountable Drum Cover	122	026959	41J-7 Idler Pulley
57	021208	111-SW Bumper	123	902007	511-X Bearing
58	087704	17R-8 Drum Shaft	124	087720	40J-7 Idler Pulley Shaft
59	902526	Brg. 722 - 4203	125	146804	922-X Plug
60	980659	Washer 59	126	962310	Screw 310
61	080308	9R-8 Arm - Left	127	024209	7SW Fan Bearing Housing
62	903787	46R-8 Drum Belt - 4L290	128	086402	43R-8 Fan Bearing Retaining Plate
63	920007	186-X Nut	129	962194	Screw 194
64	089704	56F-7 Wheel	130	086909	33R-8 Fan Pulley
65	087712	20R-8 Wheel Shaft	131	980665	Washer 65
66	088203	17ASW Collar	132	920051	926-X Nut
67	962103	Screw 103	133	146804	922-X Plug
68	903754	45R-8 Fan Belt - 5L240			



**BELT TAKE-UP:** By turning the belt tension adjusting screw (located on front of motor) to left, both the drive and fan belts are taken up. Turn right to release. Do not take up belts too tightly, as this puts an excessive and unnecessary load on the motor.

**TO REMOVE DRUM FOR COVERING:** First remove V belt and the two screws that fasten drum bracket to frame. Send this unit to your nearest authorized service representative for recovering. Do not disassemble unit unless necessary. The factory will readjust the drum to its proper alignment, after the drum has been recovered. You will then be assured of a proper working drum.

**REMOVING MOTOR:** Swing belt guard open and then replace belt tension adjusting screw and remove belts. Then loosen set screws on motor hinge support and drive out shaft which hinges motor to frame. The motor can then be easily removed.

**MOTOR MAINTENANCE:** New motors need to be run in several hours, so that new brushes can seat themselves properly over commutator. Brushes should be checked at least once a month and should not be used when worn beyond the length of 5/16 long. Due to the frictional qualities of the brushes, there is a minimum amount of wear which forms a groove in the commutator, where the brushes ride and this should be taken care of by turning on a lathe. This should be done by your nearest authorized service representative. When replacing brushes, be sure to use KWIKSANDER brushes.

Machines that have 'G' after the serial number stamped on the belt guard, have a different type motor. This is known as capacitor and is without brushes and can be run on only 110 volt AC current of 50 to 60 cycles, single phase. If motor fails to start, it may be caused by dust on starting points inside end shield on opposite end from belt guard side. By blowing out with air hose, it may remove dust, otherwise send motor to authorized service station or factory for repairs. Ask for list of authorized service stations in your locality.

**Fan Belt Idler Arm:** To remove arm, swing belt guard open. Remove fan pulley. Remove guiding cover by removing three screws. Pull out idler. If arm turns hard, clean bearing surface of all dirt, so that arm swings freely. The bearing in the idler pulley is packed in grease and should last indefinitely, but should it run hot or noisy, remove pipe plug and grease. If worn, replace. If tension spring fails to hold proper belt tension, remove and replace with new one.

**GENERAL DIRECTIONS:** In sanding, be careful not to run over the trailing cord. To help prevent the cord from being damaged, the machine is equipped with trailing cord guide which is fastened to the handle bracket. The guard should be swung from side to side, keeping cord toward the sanded side. When not in use, swing down.

Keep all parts of KWIKSANDER free from dirt and moisture as much as possible. Cover machine when not in use, to protect it from dust.

Before each machine is shipped from the factory, it is thoroughly inspected for mechanical conditions and is tested for defective insulation by the 1000 V ground test. Should any trouble develop, read the instructions carefully. If the repairs are beyond your facilities, return unit parts or the machine to the factory or your nearest authorized service representative, where less expense will be involved and expert repairing will be assured.

In ordering any repair parts, be sure to give us the type and serial number that is stamped on the belt guard of your machine.

Buy your abrasive paper from your nearest CLARKE BRANCH, in order to secure the kind best suited for your machine. Our tests have proven that you will get better results from this paper as it is made especially for the KWIKSANDER. It pays in time saved, and better quality of work. Be sure to mention width desired. The templet furnished with each machine assures the paper of being the proper length and of being turned over properly at each end.

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