



Owner's Guide

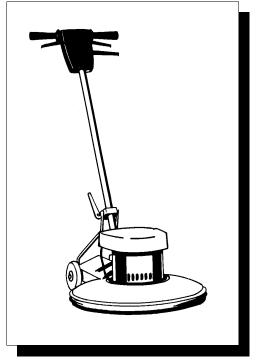
Contents:

- 1 Warnings Product Description
- 2 Operation / Maintenance / Service
- 3 Troubleshooting
- 4 Main Assembly
- **6** Handle Assembly
- **8 Wiring Diagrams**
- 9 Optional Equipment & Notes
- 10 Warranty

QUEST®	for Continuous Improvement.
	ement System is Certified ISO 9001.

Record model and serial number located on data label. Refer to these numbers when calling Windsor dealer for parts or service.

MODEL :	
SERIAL NO.:	
DUDCHASE DATE -	



WARNING OF POTENTIAL INJURY:

This product contains moving parts. To reduce the risk of injury unplug the machine before servicing.

Whenever repairs are made ensure electrical connections are correct and wiring matches APPROPRIATE diagram before plugging machine into an electrical outlet.

CAUTION:

- 1.) See the Owner's Guide for complete operating instructions.
- 2.) Maintenance and repairs must onlybe done by qualified personnel.
- 3.) Using non-Windsor parts to repair this machine will void the warranty.





INSPECTION

Please carefully unpack and inspect your machine for shipping damage. Each unit is operated and thoroughly inspected before shipment, and any damage is the responsibility of the delivering carrier who should be notified immediately.

ELECTRICAL

This rotary polisher is designed to operate on a standard 15 amp, 115 volt, 60 hz, AC household current. Check that the voltage shown on the serial number plate is suitable for the supply available. Voltages below 105 volts or above 125 volts could cause damage to the motor.

NOTE: 230/250 volt 50 hz models are available.

GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING:

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 120-volt circuit, and has a grounded plug that looks like the plug in "Fig. A" below. A temporary adaptor that looks like the adaptor in "Fig. C" below may be used to connect this plug to a 2-pole receptacle as shown in "Fig. B" below, if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet (Fig. A) can be installed by a qualified electrician. The green colored rigid ear, lug, or the like extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by a metal screw.

PROPER GROUNDING CONNECTION

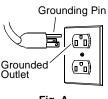


Fig. A



Fig. C

GROUNDING CONNECTION USING AN ADAPTOR

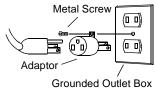


Fig. B

NOTE: Adaptors are not allowed in Canada.

OPERATION

CAUTION: For Indoor Use Only.

To prevent possible damage to the floor when using the Brush option, use water or other approved cleaning solution while operating.

When using the pad optioin, always keep the machine moving when in contact with the floor.

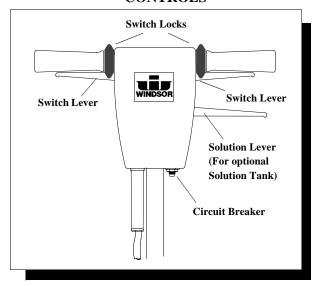
WARNING: HIGH STARTING TORQUE. HOLD MACHINE FIRMLY WITH BOTH HANDS.

- Ensure that the pad driver or brush is installed correctly and in good shape. Install or change pad if necessary (See Page 3 for detail of installation).
- **2.)** Plug the machine into a wall outlet as described in the grounding instructions.
- **3.)** Lower the handle by unlocking the adjustment handle and moving the handle into position. Relock the handle when it is in a comfortable position.
- **4.)** Check to be sure the pad driver or brush is installed before starting.
- **5.)** With the switch lock(s) rotated forward, squeeze one of the switch levers, turning the machine on. (These levers can be operated independently of each other)
- 6.) To stop the machine, release the switch lever and switch lock.

NOTE: The machine is equipped with a circuit breaker to protect the motor in the event an overload condition occurs. The circuit breaker is located at the bottom of the switch housing. Push the reset button to restart the machine. If the breaker trips again, correct the cause of overloading before proceeding.

7.) Do not let machine rest on pad. When finished with the machine for the day return handle to the storage position. Be sure to leave machine in a safe place where there is no risk of being tipped over.

CONTROLS



PROBLEM	POSSIBLE CAUSE	SOLUTION	
No power to machine	Dead electrical circuit breaker or fuse box.	Check building circuit	
	Power switch failure	Test switch for continuity and replace if necessary.	
	Faulty circuit breaker	Replace.	
	Faulty power cord	Replace.	
Electrical shock	Equipment not grounding	Follow grounding instructions exactly.	
	Receptacle not grounded	Have an electrician inspect building's wiring.	
	Internal wiring problem	Ensure that the machines wiring matches the appropriate wiring diagram. Replace any wires or components which are short circuiting	
Circuit breaker tripping	Faulty circuit breaker	Test circuit breaker for continuity. Replace circuit breaker if necessary.	
	Mechanical problem	Higher amp draws indicate a mechanical problem, find the parts which are not moving	

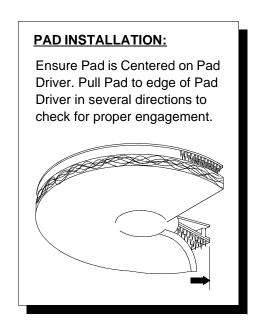
DAILY MAINTENANCE:

(At the end of each working day):

- **1.)** Inspect power cord for wear. To prevent electrical shock replace cords with frayed or cracked insulation immediately.
- **2.)** Place machine in the storage position.
- 3.) Check pad condition. Change if soiled or torn.

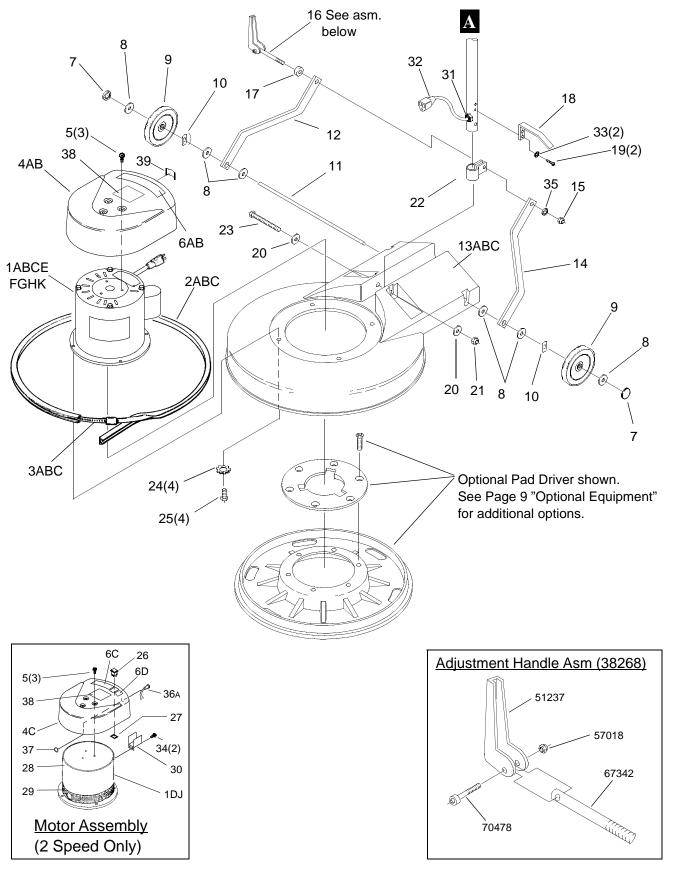
PAD DRIVER INSTALLATION:

- **1.)** Lay machine back on the ground, exposing the under side.
- **2.)** Place pad driver on the motor lug and rotate clockwise until engaged. To remove, turn Counter-clockwise.



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MAIN ASSEMBLY Parts List

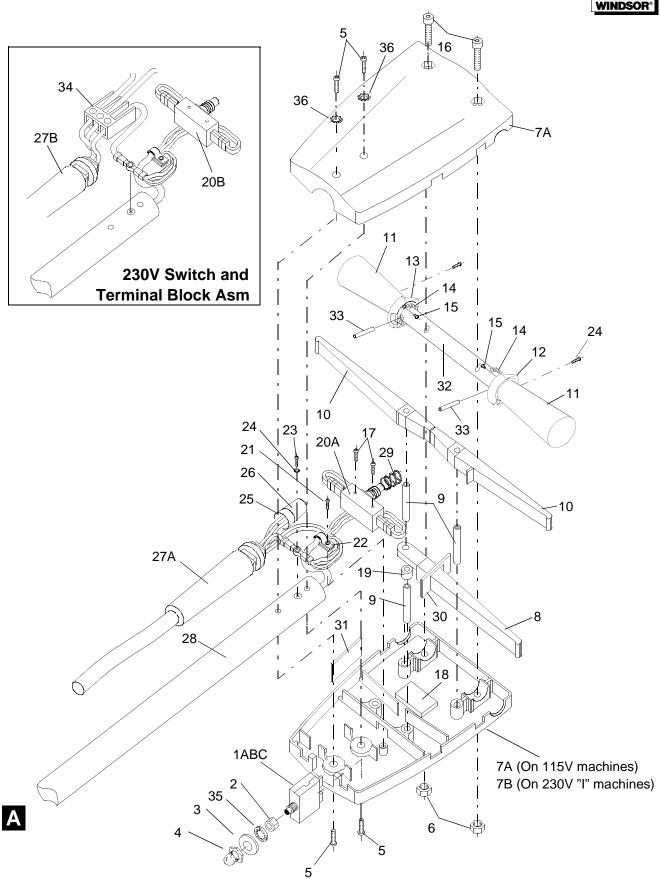


Ref					Carial	No	
14	Ref	Part No.	Qty	Description			Notes:
18 53220	1Δ	53210	1	Motor 115V 1/3 HP (175 RPM)	FIOIII	10	I M13
10							
1D							
F							
1G 53223 1 Motor, 220V 1.5 Pe (175 RPM) M17LM20I 1H 53227 1 Motor, 230V 1.5 Pe (175/300 RPM) MDS20I,MDS17I 1J 53227 1 Motor, 230V 1.5 Pe (175/300 RPM) MDS20I,MDS17I 2A 14992 1 Bumper, 17" (all a shroud) M13 2B 14608 1 Bumper, 17" (all a shroud) M17,MDS17I 3A 20081 1 Clamp, Merit 13" M13 3B 20071 1 Clamp, Merit 13" M13 3C 20070 1 Clamp, Merit 20" M20,M20X,MDS20,M320, M17X 4A 27603 1 Cover, snall motor M17,MDS17I 4B 27602 1 Cover, large motor M17,M20,M20X,M320, M17X 4C 27608 1 Cover, 2 speed motor M17,M20,M20X,M320, M17X 6A 50673 1 Label, Merit 375 M33,M17,M20,M20X,M17X 6B 50674 1 Label, Merit 175 M13,M17,M20,M20X,M17X 7 57196 1 <td></td> <td>53221</td> <td>1</td> <td>Motor, 115V 1.5 HP (300 RPM)</td> <td></td> <td></td> <td>M320</td>		53221	1	Motor, 115V 1.5 HP (300 RPM)			M320
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39 50776 1 Label, Warning for Safety							
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HANDLE ASSEMBLY





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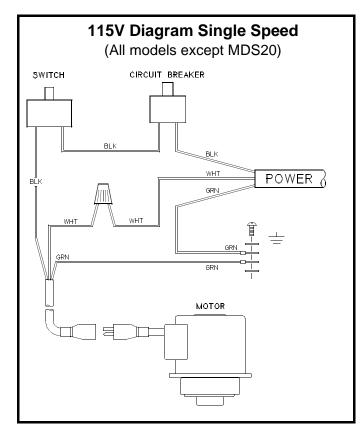


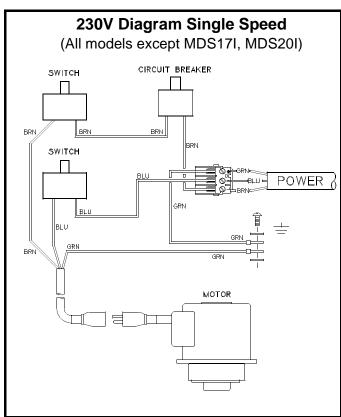


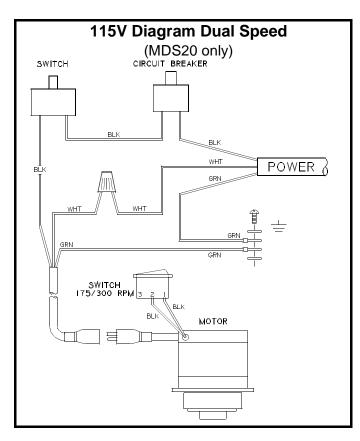
				Serial	No.	
Ref	Part No.	Qty	Description	From	То	Notes:
1A	14700	1	Breaker 15A 250VAC 50VDC	-		M17,M20,M20X,MDS20,M320 M17X
1B	14668	1	Breaker, 8A Circuit			M13
1C	14312	1	Breaker, 7A Circuit			All 230V "I" machines.
2	27558	1	Collar, Circuit Breaker			
3	50649	1	Label, Circuit Breaker			
4	14942	1	Boot, 3/8 circuit breaker			
5	70384	4	Scr, 1/4-20 x 1/2 PHTR Pltd.			
6	57006	2	Nut, 1/4-20 Hex Pltd			
7A	41234	2	Housing, POL Handle (Logo)			Qty.1 on 230V "I" machines.
7B	41246	1	Housing, POL Handle Rear Mach'd			Used on 230V "I" machines only.
8	51188	1	Lever, Height Polisher Handle			Installed for optional Sol. tank.
9	66187	3	Pin, POL Handle			
10	51187	2	Lever, Switch Polisher Handle			
11	36139	2	Grip, Handle			
12	51192	1	Lock, Switch Lt. POL Handle			
13	51191	1	Lock, Switch Rt. POL Handle			
14	73571	2	Spring, Handle Lock			
15	70242	2	Scr, 4-40 x 1/4 PHMS Pltd.			
16	70451	2	Scr, 1/4-20 x 1.62 SHCS Pltd			
17	70455	2	Scr, #6-32 x 1.00 PPHTF Pltd.			
18	73400	1	Spacer, UL Switch			Used on 115V machines only.
19	73402	1	Spacer, Adj. Handle			
20A	72123	1	Switch, 25A SPST 125-250V Snap			All 115V machines.
20B	72119	1	Switch, Snap POL Handle 230V			All 230V "I" machines.
21	70351	1	Scr, 10-32 x 3/8 HHTR w/Star			
22	20054	1	Clamp, 3/8 Nylon UL/CSA			
23	70335	1	Scr, 10-32 x 1/2 PHTR Grn/Grnd			
24	87016	1	Washer, #10 Lock Ext Star SS			
25	57003	1	Nut, Yellow Wire			All 115V machines.
26	99627	1	Electric Tape, 3/4 w/UL-CSA			All 115V machines.
27A	23167	1	Cord Set, 14/3 Std x 50' Yellow			All 115V machines.
27B	23169	1	Cord Set, 1.5mm Euro x 50' Blk			All 230V "I" machines.
28	78288	1	Tube, Polisher Handle Merit			
29	73572	1	Spring, Switch Handle			
30	62251	1	Plate, Handle Lever			
31	62344	1	Plate, Lever Plug			
32	78270	1	Tube, Handle Polisher			
33	66199	2	Pin, Polisher Handle			
34	76112	1	Terminal Block, 3 position			All 230V "I" machines.
35	87067	1	Washer, 5/16 lock int star plt.			
36	87025	2	Washer, 1/4 lock ext star			

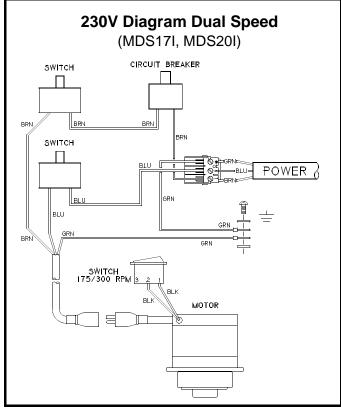
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PART #DESCRIPTION

Come equipped with clutch plate	02220 02216 02218 02219 02217 02236 02235 02206 02241 02205 02203 02238	Clutch Plate Pad Driver, 12" Merit Pad Driver, 16" Merit Pad Driver, 19" Merit Pad Driver, 19" Merit high speed Brush, 11" Polypropylene Brush, 11" Malgrit Brush, 15" Polypropylene Brush, 15" Malgrit Mild Brush, 15" Malgrit Aggresive Brush, 18" Polypropylene Brush, 18" Malgrit Mild
	02238 02202	
	▼	

Contact your local WINDSOR Distributor to order
MT4 tank for use with Merit floor polishers only

Notes:

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