



HAWK
ENTERPRISES

HAWK High-Speed Burnisher

Burnishing & Refinishing

Operation • Care • Service



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Machine Specifications

Machine Pad Size	13" Standard 13"	15" Standard 15"	17" Standard 17"	17" Dust Control 16"	20" Standard 20"	20" Dust Control 19"
Speed	1500 RPM					
Model #	HP1513-1500	HP1515-1500	HP1517-1500	HP1517-1500DC	HP1520-1500	HP1520-1500DC
Part #	F1500-13	F1500-15	F1500-17	F1500-17DC	F1500-20	F1500-20DC
Amp Draw	9.1 Amp	9.6 Amp	13.0 Amp	12.2 Amp	13.8 Amp	13.1 Amp
Speed	1800 RPM					
Model #	HP1513-1800	HP1515-1800	HP1517-1800	HP1517-1800DC	HP1520-1800	HP1520-1800DC
Part #	F1800-13	F1800-15	F1800-17	F1800-17DC	F1800-20	F1800-20DC
Amp Draw	9.5 Amp	9.9 Amp	13.9 Amp	13.2 Amp	14.6 Amp	13.6 Amp
Speed	2000 RPM					
Model #	HP1513-2000	HP1515-2000	HP1517-2000	HP1517-2000DC	HP1520-2000	HP1520-2000DC
Part #	F2000-13	F2000-15	F2000-17	F2000-17DC	F2000-20	F2000-20DC
Amp Draw	10.0 Amp	10.8 Amp	14.9 Amp	13.9 Amp	16.4 Amp	14.8 Amp

All Models

Motor	1.5 HP, 66 frame DC rectified motor					
Power	115V, 60 Hz power					
Power Cord	50 ft. 14-3 SJO industrial power cord with molded plug					
Belt Drive	Multi-V belt drive					
dB Rating	69 dB	69 dB	69 dB	62 dB	69 dB	62 dB
Machine Weight (all)	84 lbs.	86 lbs.	88 lbs.	90 lbs.	90 lbs.	92 lbs.

SERVICE INFORMATION

To obtain consistent performance over the life of your equipment, read through these instructions and save them for future reference. If you require service, contact the dealer from which the machine was purchased or an authorized service station. Always refer to your Limited Warranty for complete service information.

SERIAL NO.		MODEL
VOLTS	PHASE	HZ
MOTOR	AMPS	H.P.

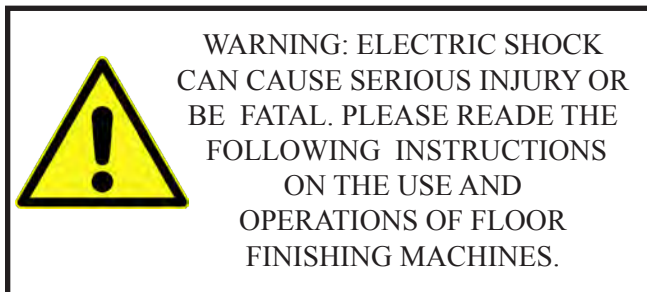
The model, type, and serial number are indicated on the data plate on the side of the handle. For prompt and complete service, refer to these numbers when inquiring about service.

Write the model and serial number of your unit in the space provided. Refer to the data plate on unit.	
SERIAL #	MODEL #
Retain this owners manual for future reference.	

IMPORTANT SAFETY INSTRUCTION

When using an electrical appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS FLOOR MACHINE.




- Your floor machine is equipped with a safety switch lock and power switch triggers designed for your safety. Do not attempt to by pass or defeat the safety switch lock. Never use any device to lock the power switch triggers in the “ON” position.
- Do not leave the floor machine plugged in. Turn off the switch and unplug the electrical cord when not in use and before servicing or changing the brushes or pads.

- Do not allow the machine to be used as a toy. Close attention is necessary when used near children. Do not leave the machine connected to an electrical outlet unattended.
- Use only as described in this manual. Use only manufacturer’s recommended attachments.
- Do not use with a damaged cord or plug. If the machine is not working as it should, has been dropped, damaged, or left outdoors, return it to a service center before using.
- Use care to keep the electrical supply cord around sharp edges or corners. Keep the cord away from the heated surfaces.
- Connect to properly grounded (3-wire) outlet only. Refer to Grounding Instructions, Page 4.
- Do not use extension cords or outlets with inadequate current carrying capacity.
- Turn off all controls before unplugging.
- Do not unplug by pulling on the cord. To unplug, grasp the plug and pull.
- Do not handle the plug or floor machine with wet hands.
- Wind the cord no tighter than is necessary to retain it during storage. Refer to Cord Storage, Page 5.
- Use extra care when working on or near stairs.
- Do not use in conjunction with flammable or combustible liquids such as gasoline, or use in areas where explosive vapor or dust may be present.
- Store your floor machine indoors in a cool, dry area.
- Keep your work area well lighted.
- **WARNING:** To avoid electrical shock, use indoors only.

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 that has an equipment-grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

FOR FLOOR FINISHING MACHINES RATED LESS THAN 150 VOLTS

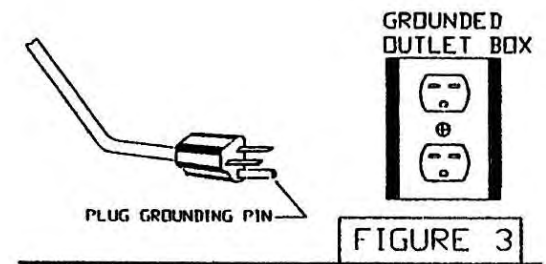
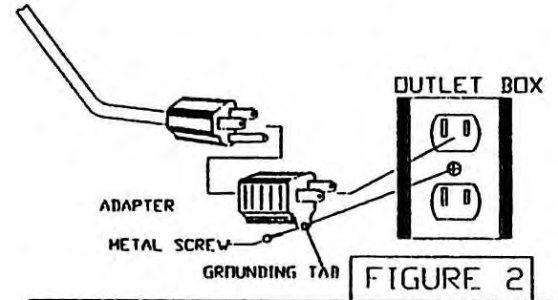
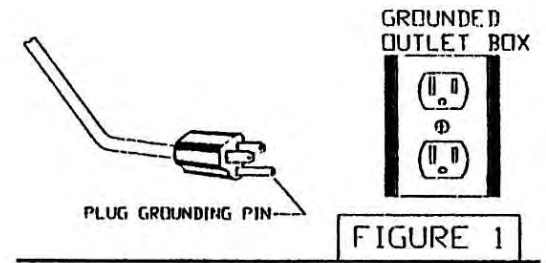


WARNING: DO NOT USE GROUNDING ADAPTERS ON FLOOR MACHINES IN CANADA. CHECK WITH CANADIAN CODES FOR PROPER EQUIPMENT USAGE. IMPROPER USE OF GROUND ADAPTORS CAN CAUSE SERIOUS INJURY, FIRE, OR BE FATAL.

Improper connection of an equipment grounding conductor can result in 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 grounding plug that looks like the plug illustrated in Figure 1. A temporary adapter which looks like the adapter illustrated in Figure 2 may be used to connect this plug to a two pole receptacle, as shown, if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet (Figure 1) can be installed by a qualified electrician. The green colored rigid ear, lug, or the like extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by metal screw.

FOR FLOOR FINISHING MACHINES RATED 150-220 VOLTS:

If the machine is provided with an attachment plug cap as shown in Figure 3, it is intended for use on a 240 volt (nominal) circuit. No adapter is available for this cap.



OPERATION / ACCESSORIES

CHOOSING THE RIGHT BRUSH AND DRIVE BLOCK

Your floor machine is packed completely assembled and ready for use after you install a brush or drive block.

Your floor machine is designed to be used for many different floor care applications. Make sure you use the correct brush or pad for the type of job you want to perform. (Accessories are available from the dealer from whom the floor machine was purchased. See Optional Accessories, Page 10)

When ordering brushes or drive blocks, refer to the following chart and specify correct brush or block diameter when ordering.

Machine Size	Pad Driver	Brush Diameter	Block Diameter
13"	12"	13"	11"
15"	14"	15"	13"
17"	16"	17"	15"
20"	19"	20"	18"

Clutch plate A0019 is common on all models.

PAD DRIVER INSTALLATION

NOTE: Disconnect the power cord from the electrical outlet before installing a pad driver.



Figure 4

To install a pad driver, leave the handle in the upright position and tip the machine backwards so it rests on its wheels and upper handle section (Figure 4). **NOTE:** Always remove the pad driver when the machine is not in use.

NOTE: Disconnect power cord from the electrical outlet before installing or removing pad, or pad driver.

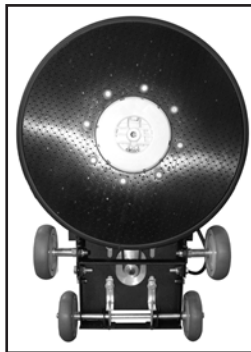


Figure 5

PAD CENTERING LOCK

To install a pad, place machine in the folded position. After centering the pad on the pad drivers, insert the Pad Centering Lock until it securely locks in place.

ADJUSTMENTS

DRIVE BELT ADJUSTMENT

NOTE: Disconnect power cord from the electrical outlet before adjusting belt tension.

1. Loosen bolts holding the drive motor to the frame. **DO NOT REMOVE (fig 6)**
2. Turn the two screws at the rear of the frame until the belt is tight.
3. Test the machine. If belt slips, adjust further

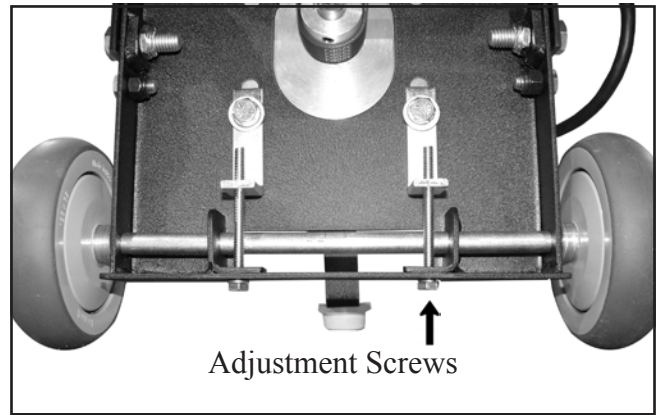


Figure 6

ADJUSTMENTS HANDLE ADJUSTMENT

The handle can be adjusted to any desired work position by simply pushing up on the handle lock (Figure 7). Move the handle to the desired position, then firmly push down on the handle lock which will lock the handle in position.

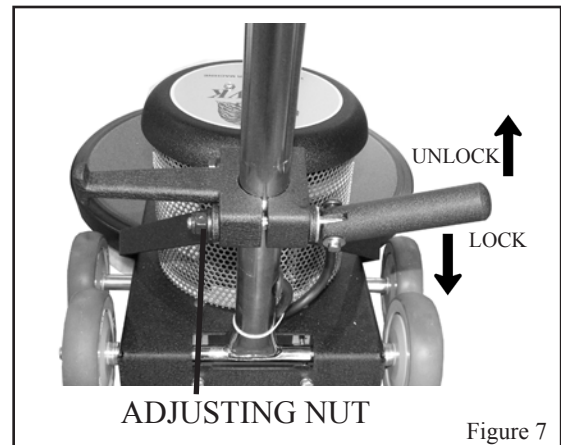


Figure 7

HANDLE CAM LOCK ADJUSTMENT

With the handle cam lock in the “up” position (unlocked), tighten the adjusting nuts until there is a slight drag when the handle is raised or lowered. The tube should be locked securely when the handle lock is pressed downward (Figure 7).

CONTROLS

ON/OFF POWER SWITCH TRIGGERS

The ON/OFF switch is conveniently located in the form of dual triggers underneath the handle grips.

TO TURN THE MACHINE ON

The operating handle must be lowered to the operating position before switching the machine ON. Place both hands firmly on the handle grips with your fingers around the power triggers. Do NOT apply pressure on the triggers before the safety switch lock is disengaged.

Disengage the safety switch lock by pushing it forward with one thumb. Then, while holding the safety switch lock in the disengaged position, squeeze the power triggers toward the handle grips and return your thumb to the handle grip. (See figure 8)

To stop the machine, simply release the triggers. The safety switch lock will automatically return to the engaged position. (See figure 8)

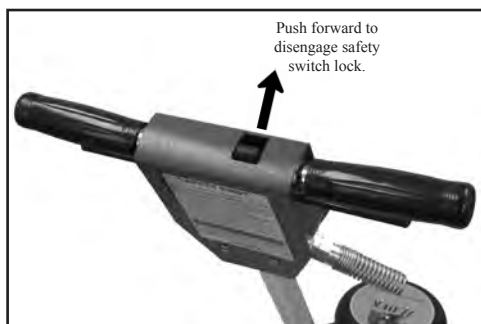


Figure 8

The model 175/300 RPM 2-Speed is a two-speed floor machine designed for dual operation, scrubbing, or buffing. A toggle switch on the left side of the switch box selects the output speed, 175 RPM for scrubbing or 300 RPM for buffing. **DO NOT** operate this floor machine for buffing in low speed, it will not do an effective job and tends to overload the motor unnecessarily.

GUIDELINES FOR OPERATION

- Your floor machine is a very sensitive, powerful unit. When in operation, it should be guided gradually and smoothly without sudden or rough motions. You will want to practice with your machine on a smooth surface until you have experience in operating it.
- For ease of operation, always keep the brush or

- pad surface level, balanced, and flat on the floor at all times.
- Always adjust the operating handle to a comfortable height at which the brush or pad surface is balanced before starting the machine. (See Handle Adjustment Page 4)
- Your floor machine will operate differently on various surfaces. For example, there will be much more resistance when the machine is used with a brush on carpeted surfaces than when it is used with a pad on a smooth surface. The operator should be prepared to adjust for these differences.
- **BEGIN OPERATING THE FLOOR MACHINE WITH THE BRUSH OR PAD SURFACE LEVEL, BALANCED AND FLAT ON THE FLOOR.**
- To move the machine to the right, slowly apply slight upward pressure on the handle.
- To move the machine to the left, slowly apply slight downward pressure on the handle.
- To move the machine forward or backward, keep the brush or pad flat on the floor and push or pull the machine in the desired direction.

DO NOT LET THE MACHINE REST ON THE PAD OR BRUSH FOR AN EXTENDED PERIOD OF TIME. This may alter the shape of the pad or brush which may cause the machine to wobble.

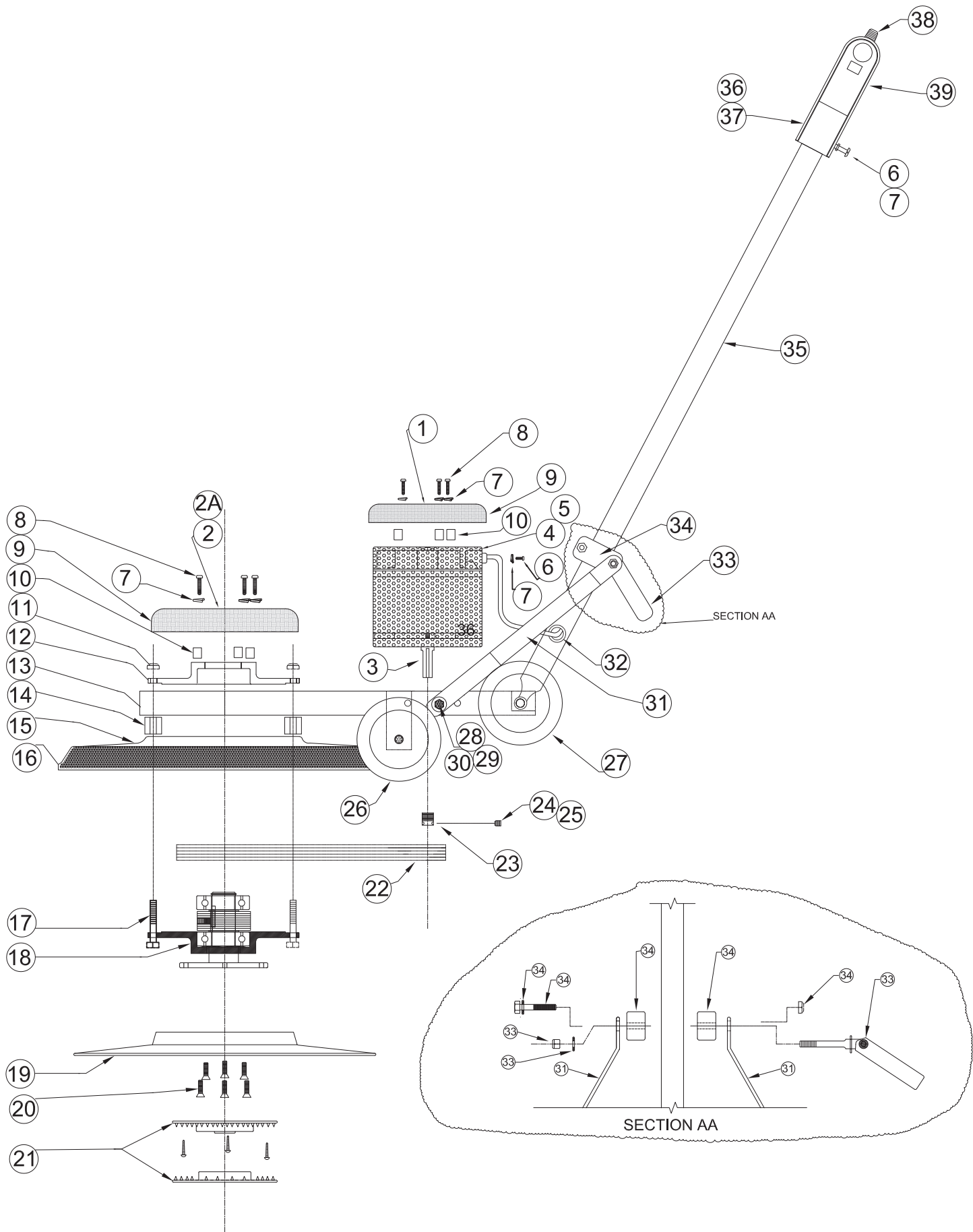
CORD STORAGE

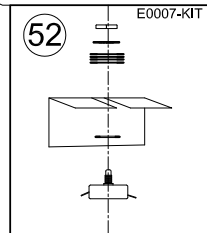
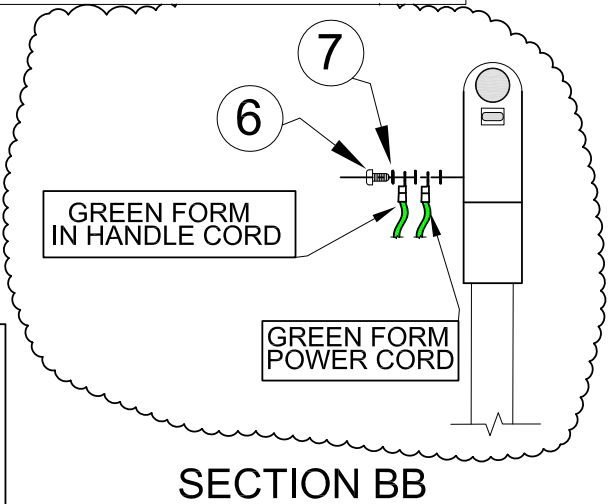
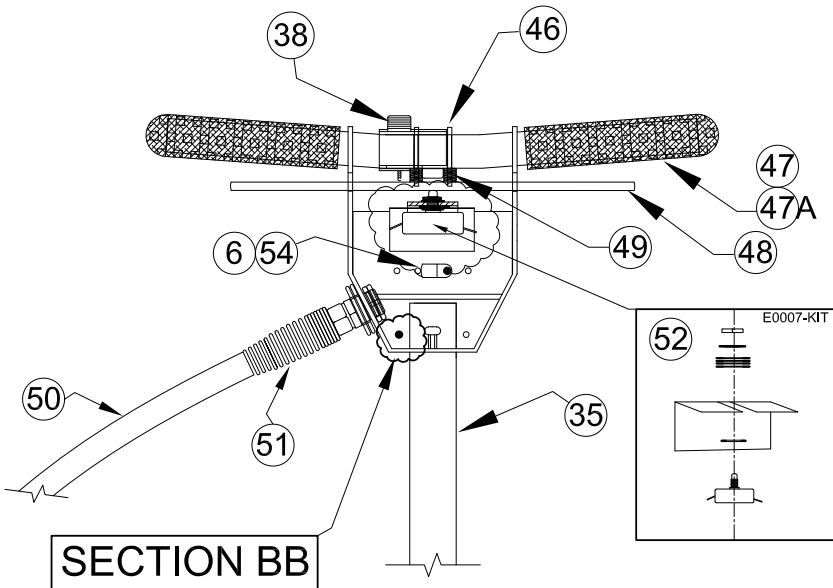
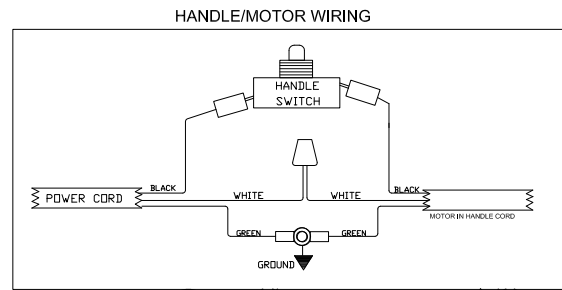
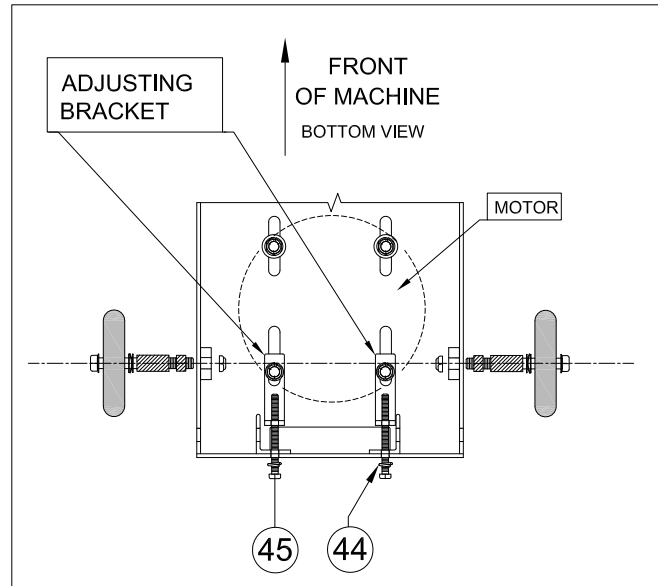
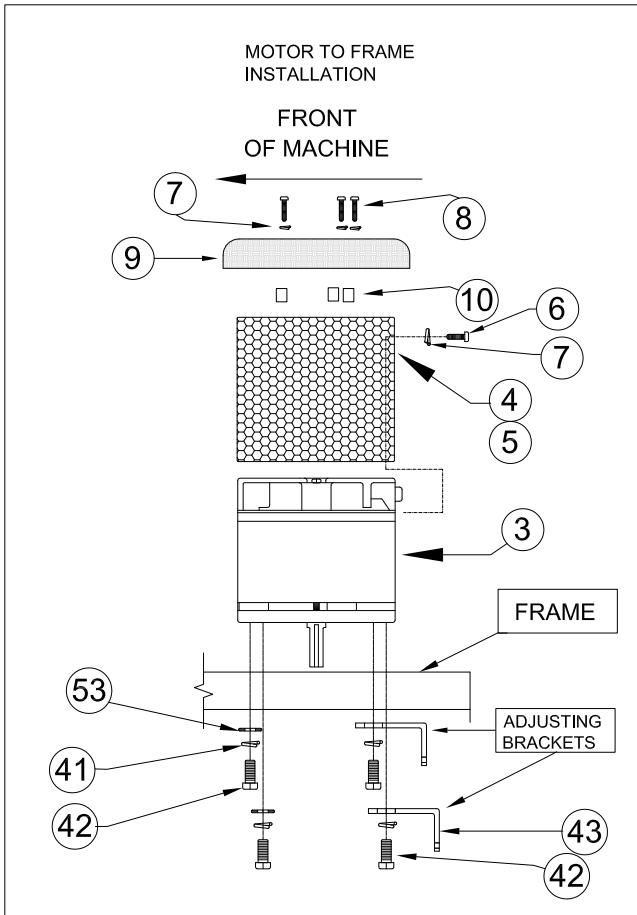
When not in use, loosely wind the power cord around the cord storage hook on the handle shaft and both of the handle grips, as shown:



CLEANUP AND STORAGE

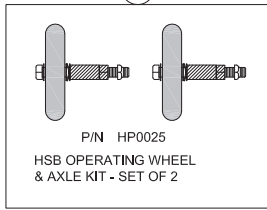
After being used, your floor machine can be wiped clean with a soft, damp cloth and should be stored in a clean, dry place.



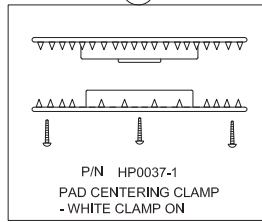


DC HIGH SPEED BURNISHER 115 VOLT

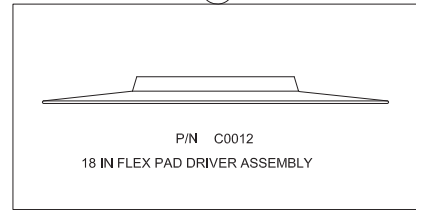
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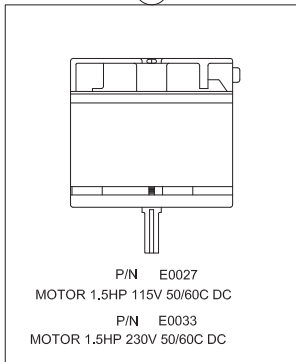
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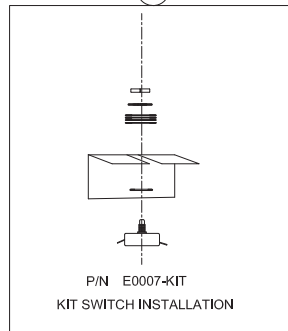
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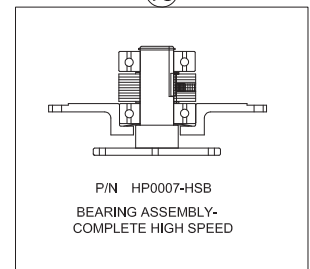
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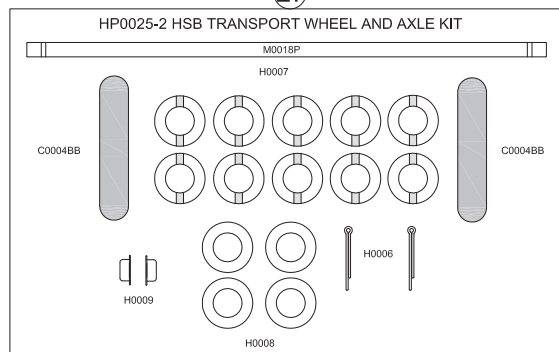
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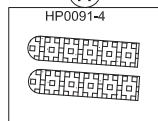
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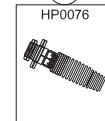
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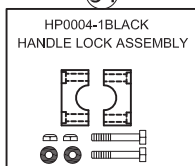
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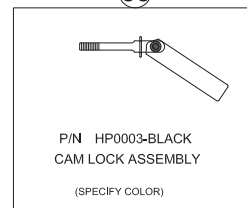
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NUMBER	NUMBER	115 VOLT UNITS	REQ'D
1	L0010	MOTOR DRIP COVER LABEL	1
2	L0006	1500 RPM / CAUTION LABEL	1
2A	L0020	2000 RPM / CAUTION LABEL	1
3	E0027 (115 VOLT)	MOTOR DC 115 VOLT/50/60 CYCLE	1
4	S0016	ROLLED MOTOR SCREEN	1
5	H0049	SPRING (EXTENSION) ZINC	2
6	H0040	SCREW 10-24 X .50	2+1+1+1+1
7	H0020	LOCK WASHER EXTERNAL	3+3+1+2+3
8	H0002	SCREW 10-24 X 1	3+3
9	S0001P-COLOR	MOTOR / BEARING COVER (SPECIFY COLOR)	1+1
10	H0003	SPACER - NYLON .50 OD X .25 ID X .625 L	3+3
11	H0057	NUT 3/8-16 NYLCK	4
12	C0011P	TOP BEARING HOUSING	1
13	W0004P	FRAME WRINKLE BLACK (NON DUST CONTROL ONLY)	1
14	M0004	SPACER	4
15	S0004-COLOR	BRUSH COVER (SPECIFY COLOR) (NON DUST CONTROL ONLY)	1
16	C0002-BLK	BUMPER BLACK	1
17	H0044	BOLT	4
18	H0007-HSB	FRONT BEARING ASSY. COMPLETE	1
		EXTERNAL RET. RING	1
		WAVE WASHER	1
		BEARING	2
		PULLY 10 GROVE	1
		SET SCREW 3/8 CUP POINT	1
		KEY SQUARE .187 X 1.0	1
		BEARING HOUSING	1
		DRIVER / SHAFT	1
19	C0012	PAD DRIVER 18 INCH.	1
20	H0032	SCREW 1/4 - 28 X 1 PHILLIPS FLAT HEAD	6
21	HP0037-1	PAD CENTERING (NATURAL CLAMP ON) KIT	1
		SCREW PAN HEAD PHIL. #8 X 1/2	3
		PAD CENTERING CLAMP - WHITE CLAMP ON	1
22	C0014-1	BELT 320J10	1
23	M0015	MOTOR PULLEY 1500 RPM	1
23	M0015-1 (2000 RPM)	MOTOR PULLEY 2000 RPM	1
24	H0052	MOTOR PULLEY SET SCREW	2
25	H0053	KEY SQUARE .187 X 1 LONG - ZINC	1
26	HP0025	HSB OPERATING WHEEL & AXLE KIT (SET OF TWO)	1
		WHEEL W/ BALL BEARING 5 IN	2
		BOLT GRADE 8 - 1/2 INCH - 13 X 4 - 1/2 INCH L.	2
		NUT - 1/2 - 13 INCH	2
		NUT 1/2 - 13 NYLON INSERT LOCKNUT, THIN	2
		SPACER WHEEL - 3/4 IN OD X 1/2 IN ID X 1.5	2
		WASHER ZINC PLATED STEEL .875 X .510 X .030	4
		SPRING WASHER - .515 ID - ZINC	2
27	HP0025-2	HSB TRANSPORT WHEEL AND AXLE KIT	1
		WHEEL 5 INCH BALL BEARING GRAY	2
		COTTER PIN - ZINC 3/32 X 1	2
		HANDLE / WHEEL SHAFT- ZINC	1
		PUSH NUT	2
		SPRING WASHER .515 ID ZINC	8
		WASHER - ZINC PLATED STEEL	4
28	H0015	NUT 3/8 X 16 HEX NYLOCK - BLACK ZINC	2

NUMBER	NUMBER	115 VOLT UNITS	REQ'D
29	H0060	WASHER 5/16 FLAT ZINC	2+4
30	H0043	BOLT 3/8 - 16 X 1-1/2 H.C.S. GR5 ZINC	2
31	S0018P	CONNECTING LEG	2
32	H0028	GROMMET	1
33	HP0003-BLACK	CAM LOCK ASSEMBLY -(BLACK)	1
		WASHER SLOTTED	1
		BOLT SPADE-ZINC	1
		RIVET SOLID -ZINC	1
		NUT PUSH BRIGHT NICKEL	1
		HANDLE LOCK CAM-BLACK	1
34	HP0004-1BLACK	HANDLE LOCK CAP KIT (BLACK)	1
		CORD HOOK CAP/HANDLE LOCK	2
		BOLT 3/8-16X2-1/2L GR8 BL	2
		NUT NYLOC THN FLEX 3/8-16 BLK.	2
		WASHER FLAT 3/8 BLK.	2
35	W0002P	HANDLE WDMT. CHROME	1
36	W0003P-COLOR	SWITCH BOX COVER (SPECIFY COLOR)	1
37	L0002	LABEL PRODUCT IDENT. SWITCH BOX	1
38	HP0038	SAFETY SWITCH KIT	1
		SAFETY SWITCH	1
		SPRING SAFETY SWITCH	1
39	L0005-1	LABEL SAFETY SWITCH BOX	1
40	NOT USED	NOT USED	
41	H0004	3/8 INCH MEDIUM SPLIT LOCK-WASHER ZINC	4
42	H0042	BOLT 3/8 - 16 X 7/8 H.C.S. GR5 ZINC	4
43	S0019-1P	BELT ADJUSTMENT BRACKET	2
44	H0054	LOCK WASHER .250 SPLIT - ZINC	2
45	H0056-3	BOLT TAP 1/4 - 20 X 3 HEX	2
46	H0012	ROLL PIN	2
47	HP0091-4	GRIP HANDLE KIT BLACK	1
		GRIP HANDLE BLACK	2
47A		GRIP HANDLE KIT GRAY	1
		GRIP HANDLE GRAY	2
48	S0008-1P	TRIGGER	1
49	H0023	SPRING TRIGGER	2
50	E0003G	50 FOOT PWR CRD 14-3 ST GRAY	1
51	H0021	STRAIN RELIEF	1
		WASHER AND STRAIN RELIEF	2
		STRAIN RELIEF	1
		NUT (APPLETON BL50 OR L 100)	1
52	E0007-KIT	ON/OFF SWITCH KIT	1
		SWITCH ON/OFF	1
		LOCK WASHER 3/8 INTERNAL TOOTH	1
		WASHER - ZINC PLATED STEEL 3/8	4
		SWITCH INSULATION	1
53	H0016	WASHER 3/8 USS - BLK OXIDE	4+2
54	H0065	LOOP CLAMP .312 BLACK	1

LIMITED WARRANTY

Your HAWK equipment which has been manufactured, tested and inspected in accordance with carefully specified engineering requirements, is warranted to be free from defects in material and workmanship. This Limited Warranty is, however, subject to the Following qualifications, conditions and limitations which are set forth to provide you and all users of the HAWK equipment with information concerning the duration, extent, availability, and applicability of this HAWK Limited Warranty, the procedure to be taken to obtain its performance, and other information concerning the **HAWK Limited Warranty policy**.

The HAWK ENTERPRISES Limited Warranty is extended to the original end user as follows:

Machines: 1 year parts replacement and 1 year service labor warranty.

Replacement parts guaranteed for 90 days from date of installation against defects in material and workmanship.

This Limited Warranty will not cover damage attributable to the following:

- (1) Improper, unreasonable or negligent use or abuse of the equipment
- (2) Abrasions or punctures of the equipment.

The start date of the Limited Warranty coverage shall be the purchase date of the original end user or six months from the date the machine was shipped from the Factory, whichever comes first.

PARTS OF EQUIPMENT NOT COVERED BY THE LIMITED WARRANTY

Certain parts of equipment require replacement in the ordinary use due to normal wear by reason of their characteristics. Normal wear items such as cords, switches, bumpers, bearings, etc. are excluded from the Limited Warranty.

EXCEPTIONS AND EXCLUSIONS FROM THE LIMITED WARRANTY

This equipment is required to be used on electric current as indicated on the data plate. Otherwise damage, defects, malfunctions or other failure of the equipment arising from use on electric current not as indicated are excepted and excluded from this Limited Warranty. Defects, malfunctions, failure or damage of the equipment caused by improper, unreasonable or neglect use or abuse while in possession of the purchaser are likewise excluded from this warranty. If repair is done on your equipment by anyone other than those designated as authorized to perform such work without first having obtained factory instructions, HAWK ENTERPRISES at its sole option, may determine that this warranty will not apply and that reimbursement for such repair will not be made because of the failure to comply with such factory specified instructions.

PROCEDURE TO BE TAKEN TO OBTAIN PERFORMANCE OF LIMITED WARRANTY REPAIR

To secure repair of the equipment or any warranted parts under this Limited Warranty, the following procedure should be taken. The inoperative equipment or warranted parts, together with satisfactory evidence of the purchase date, must be delivered, with shipping and delivery charges prepaid, to one of the following:

- (1) The dealer from whom purchased;
- (2) Any HAWK distributor's service department in the United States;
- (3) Any HAWK authorized service station in the United States.

If you are unable to locate any of the foregoing, you may write or otherwise communicate with HAWK ENTERPRISES before repair service is performed by anyone else. In such event, HAWK ENTERPRISES will provide either the location or a closely available HAWK distributor service department, or HAWK authorized service station or other factory instructions. Upon compliance with the above procedure, all warranted defects will be repaired, at no additional charge or costs to the customer, and the repaired product returned to the customer, with all shipping and delivery charges pre-paid. In following the procedures set forth, PLEASE MAKE CERTAIN to state the model, type and serial number as shown on the data plate of the equipment.

REPLACEMENT

In the event of a defect, malfunction or failure of your HAWK equipment or any warranted part to conform with this warranty, HAWK may, at its sole option and own expense, replace the equipment or any warranted part with another new, identical or reasonably equivalent model or part in lieu of repairing the defect.

NO REFUND OF PURCHASE PRICE

HAWK will not, as a matter of its Limited Warranty policy, refund the customer's purchase price.

LIMITED WARRANTY REGISTRATION CARD FOR YOUR EQUIPMENT AND REQUEST FOR INFORMATION

Your HAWK distributor from whom you purchased your equipment is responsible for the registration of your Limited Warranty with the factory. Any information or questions you may have concerning your HAWK ENTERPRISES equipment or this Limited Warranty may likewise be secured from the factory. This Limited Warranty will give you specific legal rights, and you may also have other rights which vary from state to state.