

New Equipment Warranty

Limited Warranty.

Caliber Equipment Inc. warrants new equipment against defects in material and workmanship under normal use and service to the original purchaser. Any statutory implied warranties, including any warranty of merchantability or fitness for a particular purpose, are expressly limited to the duration of this written warranty. **Caliber Equipment Inc.** will not be liable for any other damages, including but not limited to indirect or special consequential damages arising out of or in connection with the furnishing, performance, use or inability to use the machine. This remedy shall be the exclusive remedy of the purchaser. The warranty period is subject to the conditions stated below.

WARRANTY

Caliber Equipment Inc. warrants electric motors, gearbox transmission, and chassis components on this floor machine to be free from defects in material and workmanship, under normal use and service for five (5) years to the original purchaser. Parts repaired or replaced under this warranty are warranted for the remainder of the original warranty period. Service labor charges are covered for up to one (1) year from the date of purchase through a service provider authorized by the seller. Travel expenses are NOT covered.

Normal wear items such as belts, brushes, bumpers, capacitors, carbon brushes, casters, clutches, cords, finishes, gaskets, rectifiers, switches, squeegees, bearings, pulleys, relays, actuating cables, wheels, and tires will be warranted for manufacturing defects for 90-days from the purchase date.

The warranty starts on the purchase date by the original purchaser from **Caliber Equipment Inc.** subject to proof of purchase. The Machine Registration Card must be completed and returned immediately at the time of purchase. If proof of purchase cannot be identified, the warranty start date is 90 days after the inventory stocking date at the **Caliber Equipment Inc.** warehouse.

Caliber
Equipment, Inc.

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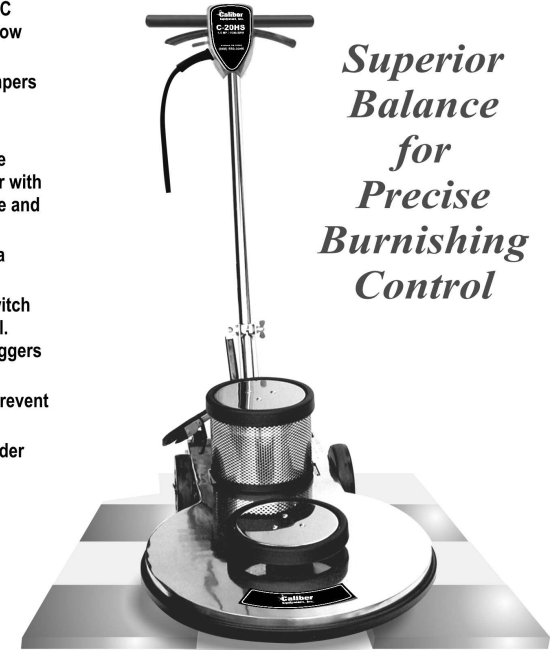
Caliber
Equipment, Inc.

C-20HS

1.5 HP / 1500 RPM / 20"
Ultra High Speed Burnishers

C-20HS FEATURES

- **Burnishing Power** with 1.5 HP, 15 Amp, D/C rectified motor to eliminate brown-outs, low voltage and startup torque problems.
- 20" apron has non-marring full wrap bumpers to protect walls and baseboards.
- Reliable 1500 RPM transmission.
- Balanced chassis design provides precise pad pressure. Includes flexible pad holder with pad centering device to deliver even shine and gloss.
- All metal chassis gives added weight for a faster, longer lasting, brighter shine.
- Designed for safe operation. Interlock switch leaves both hands conveniently in control. Safety enhanced, non-conductive dual triggers eliminate shock potential.
- Separate non-marking transport wheels prevent tracking in of contaminants.
- Low profile drive apron easily reaches under counter coves and beds. Polished apron looks newer, longer!
- Fully adjustable handle positions are comfortable for all operators.
- Includes 50 foot safety power cable. Motor plugs into cable at handle base for easy maintenance
- UL 7C29 listed for reliable quality.
- 5 year warranty



SPECIFICATIONS

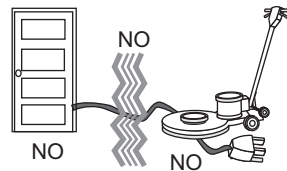
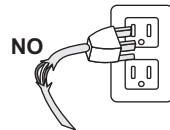
Model Number	C-20HS
Apron Size	20"
Motor Speed	1500 RPM
Weight	87 lbs
Motor Type	1.5 HP - D/C Rectified
Amp Draw	13-15 amps
Chassis	Polished Aluminum
Power Cord	50 foot safety 14/3 Ga.
Wheels	6" non-marking operating wheels 4" transport wheels
Warranty	5 years on motor

1.0 Safe Operating Conditions

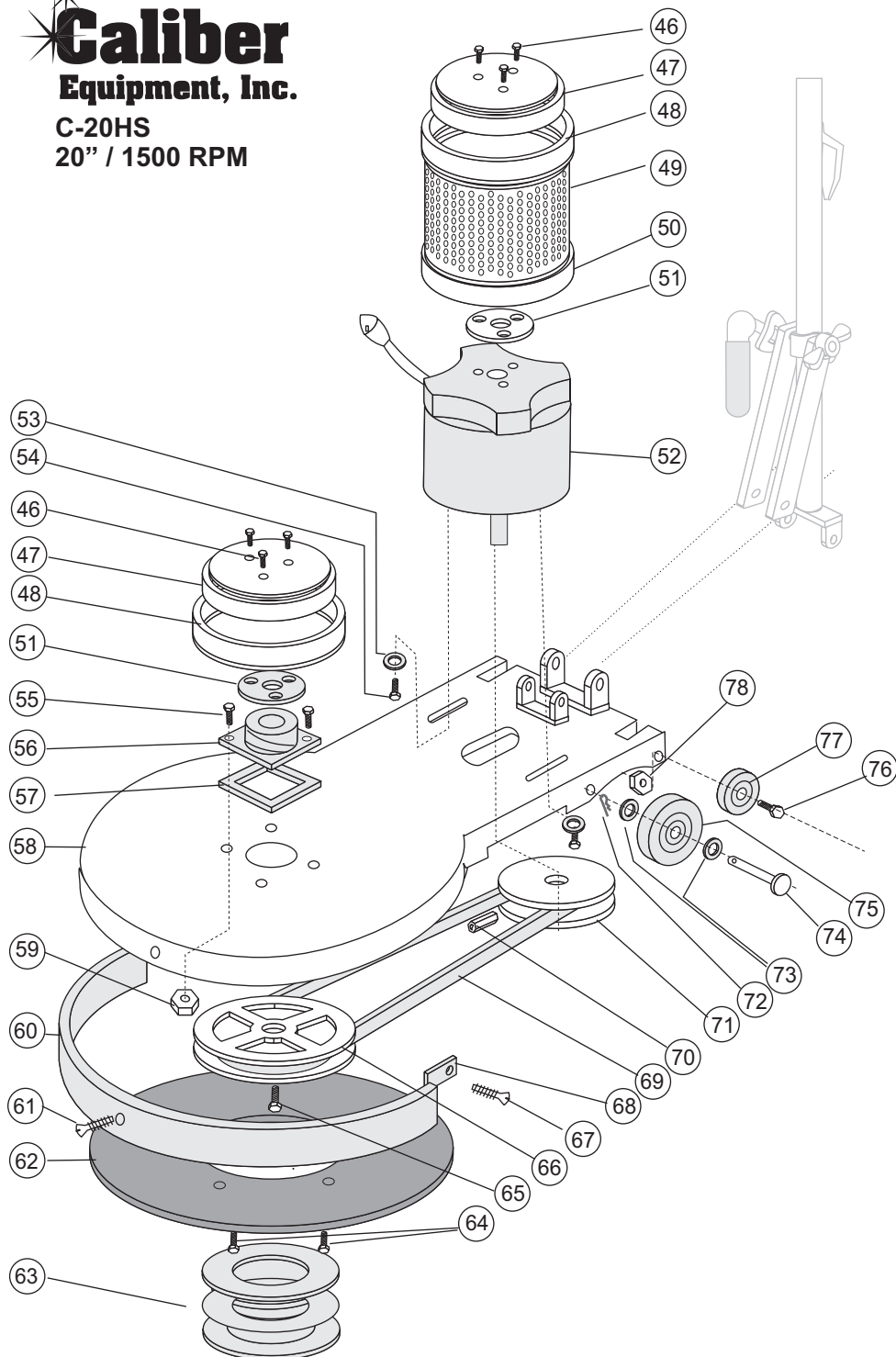
READ THIS MANUAL BEFORE USING THIS BURNISHING MACHINE. KNOW THE PROPER OPERATION, CORRECT APPLICATIONS AND THE LIMITATIONS OF THIS EQUIPMENT **BEFORE** USE.

Reduce the risk of fire, electric shock, or injury:

- This burnisher is designed for indoor use only. Do not use outdoors. Do not expose to rain.
- Do not wash motor with flowing water. If motor gets wet, seek authorized service.
- Keep the vents on this air-cooled motor free of debris. Do not operate with the motor covered or with vents blocked.
- Never operate this machine near flammable dusts, liquids or vapors. Never use flammable solvents as a cleaning agent. Engine sparks and operating heat can cause a fire.
- Never handle electrical equipment with wet hands. Never operate this machine in bare feet.
- Unplug the machine when not in use and when servicing the equipment. To unplug, grasp the plug, not the cord.
- Never operate a burnisher with damaged handle controls, cord, or plug. If the equipment is not performing properly, seek repair from a qualified service supplier.
- This floor machine is constructed with electrical grounding at the plug. Operate only when connected to a properly grounded outlet. See section 1.2 for grounding details.
- Prevent electrical cord abuse. Do not close a door upon the cord, drive equipment over it, or run the burnisher over it. Do not expose the cord to hot surfaces. Do not lift, pull or carry this machine by the cord.
- Never operate the burnisher over sharp objects that can be thrown out and harm the operator and damage the floor. Sweep hard-floors before burnishing.
- Train your staff in the proper use of this equipment.



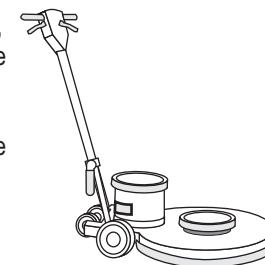
#	Description	Part Number	# Required
46	Drip Cap Mount Screw	B-151	6
47	66 Fr. Drip Cap Cover	M-242	2
48	66 Fr. Drip Cap Cover Bumper	M-239	2
49	UHS Motor Screen	SCR-01	1
50	UHS Motor Screen Bumper	M-238	1
51	Cork Drip Cap Gasket	M-248	2
52	UHS Motor Only	Motor-DC-1MP	1
53	Washer	B-28	2
54	Motor Mount Bolt for UHS Motor	B-143	2
55	Bearing Block Assy Mount Bolt	B-144	4
56	Bearing Block Assembly	BBA-1	1
57	Bearing Block Gasket	B-145	1
58B	Base Casting 20"	A-132	1
59	Motor Mount Lock Nut	B-150	4
60B	Bumper 20"	M-303	1
61	Ground Wire Screw	B-68	1
62A	Floppy Disk Driver 19"	DC-18	1
62B	Floppy Disk Driver 21"	DC-20	1
63	Black Pad Retainer - Snap In	PR-7A	1
64	Screw	B-22	4
65	Bolt	B-149	1
66	Pulley Driver	PD-1	1
67	Bumper Screw	B-68	1
68A	Bumper Strap - 20"	M-302a	1
69B	Drive Belt DC-1500	DB-2	1
70	Allen Head Set Screw For PD	B-149	2
71C	Pulley To Fit Motor 1500 RPM DC	PM-3	1
72	Cotter Pin Wheel Axel	B-142	2
73	Spring Washer	B-51	4
74	Wheel Axel	B-16	2
75	6" Wheel	M-250	2
76	Transport Wheel Axel Bolt	B-26	2
77	Transport Wheel 4"	M-209	2
78	Lock Nut	B-77	2



(10) Caliber C-20HS Burnisher

1.1 Electric Power

This burnishing machine operates on a 15 amp nominal 115V, 60 HZ, A.C. power circuit. (Motors may be custom wired at the factory for 220 V, 50 Hz international operation.) The amp, hertz, and voltage ratings are listed on the motor spec label found on each machine. Using voltages above or below those indicated on the spec label will damage the motor. Always check your local voltage requirements.



1.2 Grounding Instruction

This burnisher must be **grounded** while in use to protect the operator from electrical shock. This floor machine is built with a 3-wire cord and a 3-prong grounding type plug (Figure 1) to fit the properly grounded receptacle.

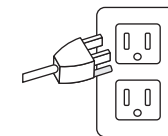


Figure 1

Before using this floor machine, make sure a properly grounded, 3-hole electrical outlet is available. If not, as in some older facilities, use an adaptor for connecting a 3-prong plug to a 2-prong receptacle (Figure 2) to ground to the outlet chassis.

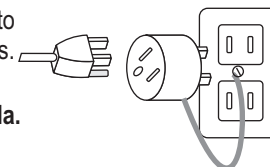


Figure 2

IMPORTANT!! This adaptor may not be used in Canada.

IMPORTANT!! Never cut off the grounding prong for use in a 2-prong outlet. By doing so, you have cut off your protection from electrical shock.

Never assume that all 3-hole outlets are properly grounded.

Never assume that an adaptor connection (as in Figure 2) is properly grounded. Check the outlet with a **ground fault interrupter device** which quickly indicates if a ground is connected. Correct a faulty grounding before proceeding.

1.3 Extension Cords

This floor machine is shipped with a 50 foot (15 M) long safety cord which plugs directly into an approved outlet. The use of an extension cord is not recommended.

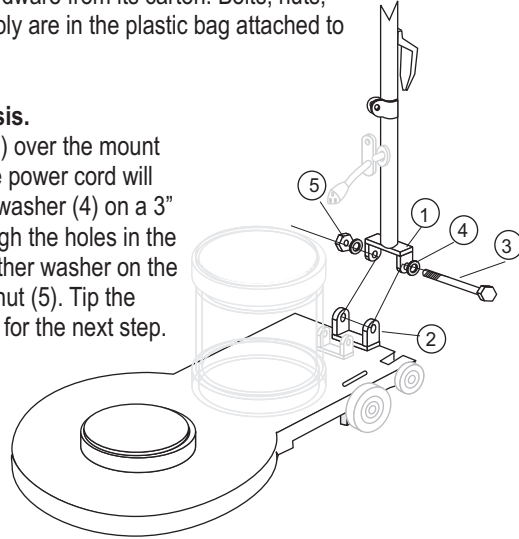
2.0 Mount the Handle

This high speed burnisher is shipped from the factory with the handle unattached. You will need two 7/16" wrenches to complete the assembly.

Remove the handle and mounting hardware from its carton. Bolts, nuts, washers and the locking lever assembly are in the plastic bag attached to the handle.

1. Mount the handle on the chassis.

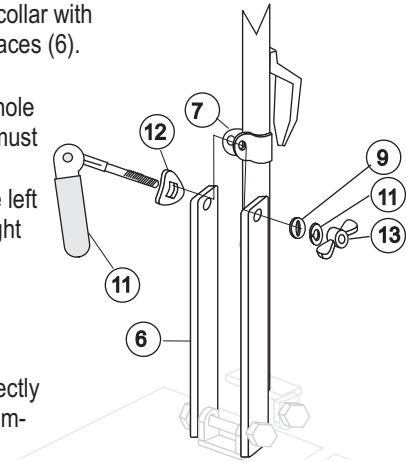
Align the handle with the yoke (1) over the mount (2) on the burnisher chassis. The power cord will be facing the motor. Place a flat washer (4) on a 3" bolt (3), then place the bolt through the holes in the yoke and the mount. Place another washer on the bolt and secure with the locking nut (5). Tip the handle back and out of your way for the next step.



2. Mount the support braces on the handle.

Tip the handle up. The handle mounting collar (7) is designed to slide freely up and down the handle tube, allowing the handle to be adjusted for the comfortable operation of all users. Line up the mounting collar with the upper holes in the two straight handle braces (6).

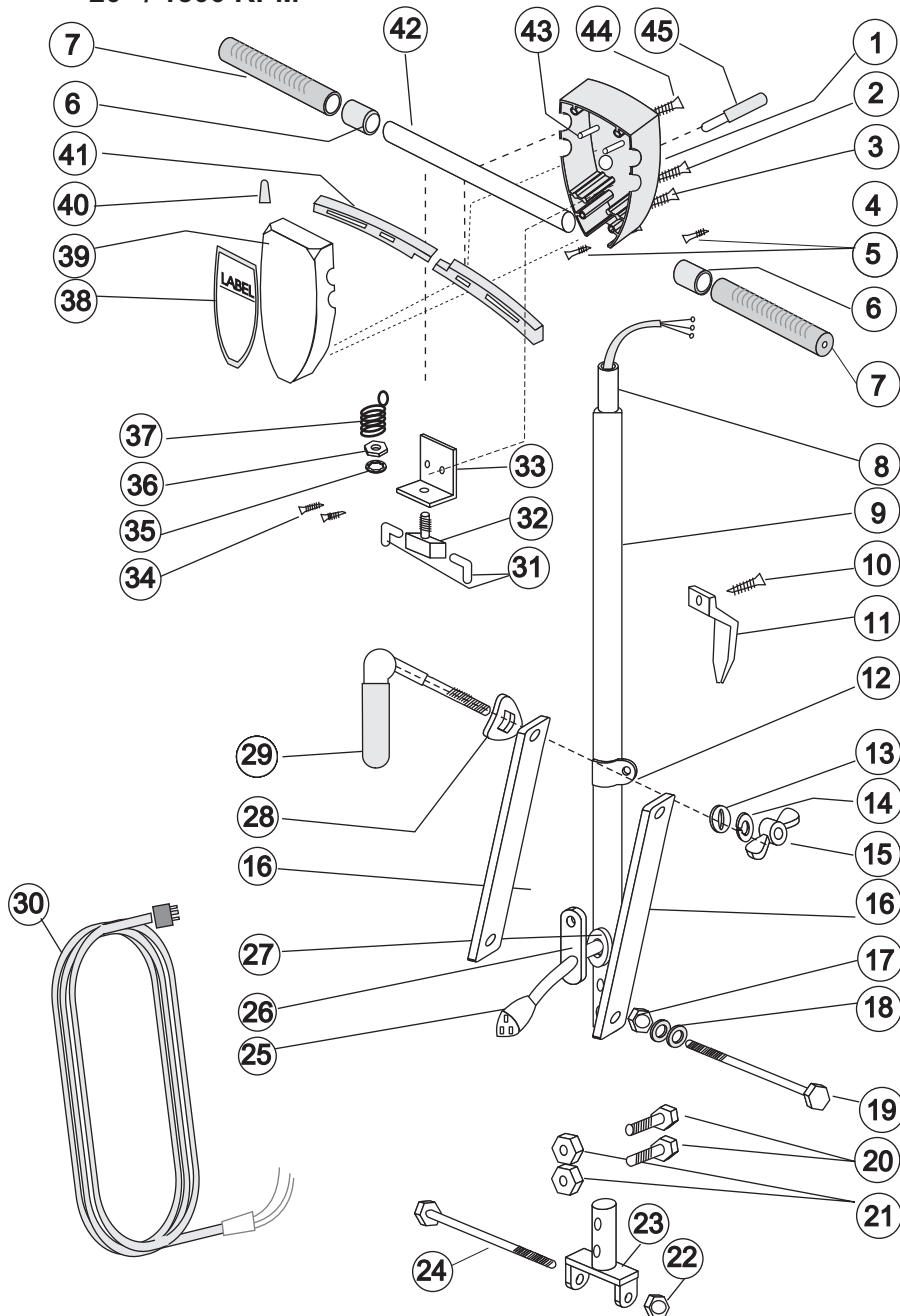
- Place the curved spacer (12) with a square hole onto the locking lever shaft (11). The curve must face the lever.
- Insert the shaft through the upper hole in the left handle brace (6), mounting collar (7), and right handle brace.
- Place a spacer (9) on the shaft.
- Place the split washer (11) on the shaft
- Place the locking wing nut (13) on the shaft.
- Adjust the wing nut for tightness. When correctly installed, the collar slides easily when the cam-engineered locking lever is "up", but is firmly fixed when the lever is "down".



ITEM	DESCRIPTION	PART #	#
1	Switch Box Back Cover	A-104	1
2	Handle Tube Screw	B-23	2
3	Switch Box Closing Screws	B-21	4
4	Strain Relife Clip	M-213	1
5	Switch Plate Screw	B-68	2
6	Rubber Spacer - Yellow	M-218Y	2
7	Hand Grip	M-218	2
8	Handle Tube Insert	M-247	1
9	Handle Tube Assembly	M-206	1
10	Cable Hook Screw	B-2	2
11	Cable Hook	A-164	1
12	Sliding Collar	A-111	1
13	Flat Washer	B-37	1
14	Split Washer	B-39	1
15	Cam Lock Wing Nut	B-25	1
16	Straight Brace	M-233	2
17	Stop Nut	B-10	1
18	Washer	B-28	2
19	Cap Screw	B-9	2
20	Yoke Tube Mount Bolt	B-18A	2
21	Tube Mounting Nut	B-19	2
22	Yoke Nut	B10	1
23	Yoke	A-1001	1
24	Yoke Bolt	B14	1
25	Handle Tube Cable	G-16	1
26	Black Rubber Cable Connector	M-249	1
27	Cable Grommet	B-63	1
28	Rectangular Hole Cam Washer	B-67	1
29	Cam Assembly	C-100	1
29A	Complete Cam Assembly Kit (Includes 1 each Of Drawing Items #13, 14, 15, 28, 29)	CCA	1
30	50 Foot Cable 14/3	G-14-50	1
31	Insulated Flag Wire Connector	G-48	5
32	On-off Switch And Plate Assembly	G-30-AB	1
33	Switch Mounting Plate	G-30-B	1
34	Ground Wire Screw	B-1	2
35	Int. Tooth Lockwasher	B-35	1
36	Flat Hex Nut	B-33	1
37	Trigger Return Spring	G-30-C-T057	1
38	Label - Switchbox	Call For #	1
39	Switch Box Front	A-103	1
40	Wire Nut	G-47	1
41	Triggers	A-105	2
42	16" Crossbar	M-211-A	1
43	Trigger Pins	B-70	2
44	Cross Bar Screw	B-22	2
45	Safety Interlock Assembly	SIA-1	1

Caliber

Equipment, Inc.
C-20HS
20" / 1500 RPM

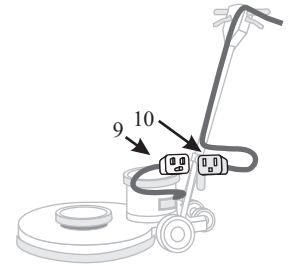


(8) Caliber C-20HS Burnisher

2.1 Attach the Power Cord

The triple-wire grounded power cord has been factory-installed into the handle tube. Plug the male connector (9) coming out of the motor housing into the female connector (10) coming out of the end of the handle tube.

Now, plug the end of the 50 foot long power cord into a grounded power outlet. Release the safety lever, squeeze the triggers on the handle and check for power to the motor.



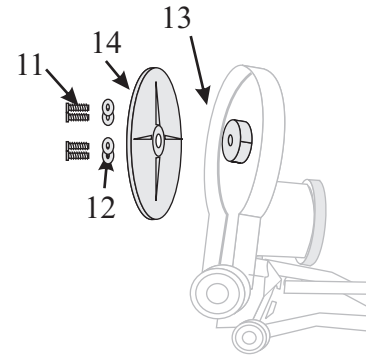
2.3 Inspect the Pad Driver

A flexible, high-speed pad driver has been bolted onto the burnishing machine and dynamically balanced. This driver is the connection between the burnisher and a disposable pad that burnishes the hard floor finish. If this molded plastic part ever becomes damaged or if the molded hooks are worn and cannot hold the pad, replace promptly.

Unplug the burnishing machine. Lock the handle in the "up" position and tip the machine back fully.

Remove the 4 mounting screws (11) and washers (12) from the drive hub (13).

Place the new pad driver (14) onto the main drive pulley. Insert the mounting screws (11) and washer into the bolt hole. Tighten securely.



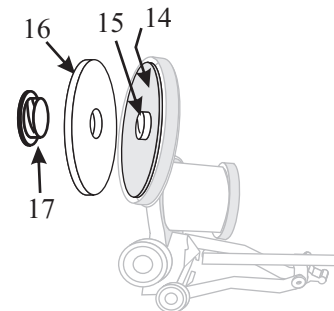
2.4 Install the Pad

The face (bottom) of the pad driver (14) is covered with small "hooks" that grab onto the pad (16). Every time you mount a new pad onto the pad driver, follow these steps:

- Unplug the burnishing machine. Lock the handle in the "up" position and tip the machine back fully.
- Mount the pad (16) over the male shoulder (15) on the pad driver. Make sure that the pad is centered on the driver.
- Insert the locking ring (17) through the center hole in the pad and into the shoulder. Tighten until the locking ring lies below the face of the pad. *If the ring is not fully locked, it will scratch the floor.*

Never operate the burnisher without a pad.
Never operate the burnisher with a damaged pad, or without a locking ring to hold the pad in place.

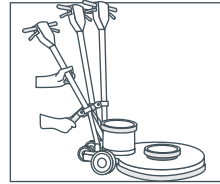
Now, you're ready to go to work!



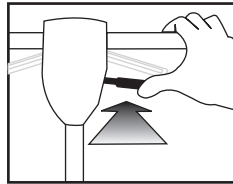
Caliber C-20HS Burnisher (5)

3.0 Operating Tips

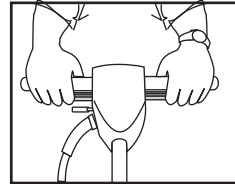
- For indoor use only.
- Sweep abrasive soils before burnishing.
- While the pad driver is spinning, keep the burnisher moving to avoid “donut” burns on the floor.
- To start operation:
 - Unlock the handle by raising the locking lever.
 - Lower the handle to a comfortable position, typically waist height.
 - Relock the handle by pushing the lever down.**NEVER OPERATE THE MACHINE WITH THE HANDLE UNLOCKED.**
 - This burnisher has a high torque motor. Hold the machine firmly with both hands when starting up.
 - Push the red safety interlock switch forward to unlock the dual triggers.
 - Squeeze both triggers to send power to the motor. Once power is on, either trigger will keep power to the motor. To stop, release both triggers.



SET HANDLE HEIGHT



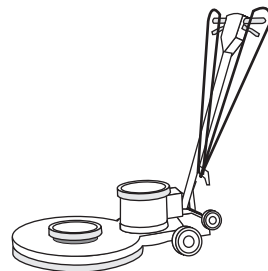
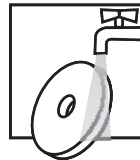
PUSH LOCK FORWARD



SQUEEZE BOTH TRIGGERS

3.1 To store your machine

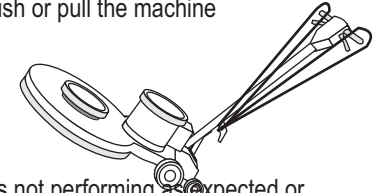
- Lock the handle in the “up” position. Tilt the machine back onto the transport wheels. Never store the machine with the pad on the ground.
- Wind the cord around the handles and the bottom cord hook.
- Wash pads and hang to dry.
- Inspect and maintain equipment on a regular schedule for best results.
- Check and clean pads after each operation. Remove soil and chemical buildup. Replace worn or damaged pads.
- Check the triggers and switches for proper operation.
- Repair or replace damaged skirts and bumpers.
- Use air pressure or vacuum to remove dust and debris from the motor vents.
- Report any performance problems and repair promptly.



3.2 Transport

To transport this machine from the janitor’s closet to the work area:

- Lock the handle in the “up” position. Wind the cord around the handles and the bottom cord hook.
- Tip the machine back onto the transport wheels. Push or pull the machine by the handle, not by the cord or any other part of the machine. Travel carefully.



4.0 Troubleshooting

Never operate this floor machine when the equipment is not performing as expected or when any part is visibly damaged. The cause and solution for some basic problems are described below. When repair is needed, take the equipment to an authorized repair service center.

4.1 Floor machine will not run

- Circuit breaker tripped in building. **Check and reset.**
- Equipment unplugged. **Check plug at wall and at machine base. Plug in.**
- Power cord failure. **Test with a working power cord. Lock the handle up and tip the motor back. Unplug the cord at the motor and plug the motor into your working power cord.**

IMPORTANT! THIS IS JUST FOR TESTING. When you do this, you have removed the safety handle controls from the circuit and you are sending power directly to the motor. If the motor now spins, the problem is in the cord or the handle assembly. Seek authorized repair service.

If the motor still does not spin, the problem is either in the male connection at the motor base or in the motor. Seek authorized repair service.

- Motor sparks or smokes. **Seek authorized repair service.**

4.2 Electrical shock to operator

- Equipment wiring failure or electrical short in the machine. **Seek authorized service.**
- Poor grounding or no grounding. **Test the outlet with a ground fault interrupter. Retain a certified electrician to inspect and repair grounding. NEVER clip off the ground plug on your cord.**
- Repeated circuit breaking. **High amp draw and circuit breaking can be an electrical or mechanical problem. Seek authorized repair service.**

4.3 High Vibration

- Pad not centered. **Tip machine back and re-center the pad.**
- Unevenly wear or warp to pad or brushes. **Replace.**
- Machine chassis damaged by dropping. **Replace.**