

# PULLMAN-HOLT

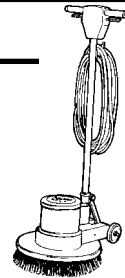
## Operation & Care Instructions

Save For Future Reference

### DS-20

#### Dual Speed Floor Machine

This dual speed floor machine is a high quality, precision made product. All parts used in the manufacturing of this floor machine have passed rigid quality control standards prior to assembly and an "each unit" final inspection prior to packaging is your assurance of proper assembly. This floor machine was protectively packed to prevent possible damage in transit. Should damage occur, please notify the transporting carrier immediately for loss and/or claim.



## IMPORTANT SAFEGUARDS

### MOTOR:

This machine is powered by a 1-1/2 HP permanent magnet DC motor (rectified) and will operate on a 115 VAC 60HZ only. Be sure your power supply agrees with the voltage marked on name plates.

### WARNING

Risk of explosion. Floor sanding can result in an explosive mixture of fine dust and air. Use floor-sanding machine only in a well ventilated area free from any flame or match.

### WARNING

**RISK OF FIRE:** Do not use with a flammable or combustible liquid to clean a floor.

### EXTENSION CORDS:

Machines that have 3 wire cords requiring grounding must only be used with extension cords that have 3-prong grounding type plugs and 3-pole receptacles.

To determine the minimum wire size required, refer to the chart below:

Nameplate Rating-Amps	Minimum Wire Size (AWG) of Extension Cord							
	Total Extension Cord Length (Feet)							
	25	50	75	100	125	150	175	200
0-10.0	18	18	16	16	14	14	12	12
10.1-13.0	16	16	14	14	14	12	12	12
13.1-15.0	12	12	12	12	12	12	12	-

Before using an extension cord, inspect it for loose or exposed wires, damaged insulation and defective fitting.

NOTE: Warranty claims will be honored ONLY if handled by an authorized Pullman-Holt Service Center unless other prior arrangements have been made with the Pullman-Holt Service Department.

### WARNING

**OF POTENTIAL INJURY:** Moving parts – to reduce the risk of injury, unplug before servicing.

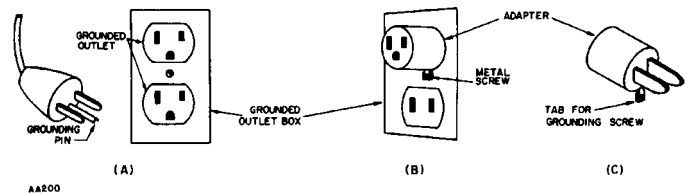
## GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or breakdown, 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 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 illustrated in sketch A above. A temporary adapter that looks like the adapter illustrated in sketches B and C may be used to connect this plug to a 2-pole receptacle as shown in sketch B if a properly grounded receptacle is not available. The temporary adapter should be used only until a properly grounded outlet (sketch A) can be installed by a qualified electrician. The green colored 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 a metal screw.

NOTE: In Canada, the use of a temporary adapter is not permitted by the Canadian Electrical Code.

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# ABOUT THE MACHINE

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## TO ASSEMBLE

Attach handle assembly to chassis assembly. Then attach scrub brush or drive brush and appropriate pad and the machine is ready to operate.

## TO ADJUST HANDLE

The handle adjustment is controlled by a "star knob" located at the rear of the machine near the bottom of the handle pipe. To release, turn the knob counter-clockwise or by applying foot pressure to the lower portion of the knob. When a convenient handle location for machine operation has been found, lock the handle in place by turning the star knob clockwise to tighten. When transporting the machine or attaching brush/pad be sure the handle is LOCKED in the upright position. NEVER TURN ON THE MACHINE WITH HANDLE IN THE UPRIGHT LOCK POSITION.

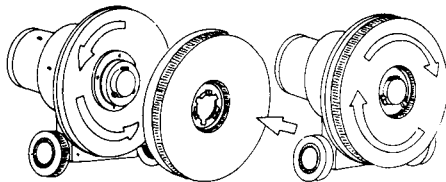
## TO OPERATE SAFETY LATCH

The operator must manually rotate the latch with the left thumb before machine will run. When the trigger is released, the safety latch snaps back into lock position. This will prevent the machine from accidental start-up.

## TO ATTACH BRUSH

Always attach brush by hand. Never by placing machine over an unattached brush and starting machine to lock brush. This will cause gear box damage not covered by warranty.

With cable unplugged, LOCK handle in upright position and tilt machine back on the handle until the underside of the machine is fully exposed. Select the desired brush, scrub or drive, and position



the three slots of the clutch plate over the three lugs of the drive plate. Turn the brush counter-clockwise as far as it will go. The brush is now seated in ready-to-use position. **TO REMOVE BRUSH**, disengage clutch plate slots from drive plate lugs by turning clockwise. **DO NOT OPERATE THIS MACHINE WITHOUT SCRUB BRUSH OR DRIVE BRUSH AND PAD IN PLACE.**

## TO START

With the power cable plugged into a proper outlet, squeeze the switch bar beneath the handle grips.

## CAUTION

Machine will immediately veer to one side. Be prepared to control action.

## TO OPERATE

This machine is designed to move from side to side. To guide right, raise the handle slightly. The higher the handle is raised, the faster the machine will move to the right. Conversely, to guide left, lower the handle. The more the handle is lowered, the faster the machine will move to the left. **DO NOT LEAVE A PLUGGED IN MACHINE UNATTENDED.**

## CARE AND MAINTENANCE

This machine will afford you many years of trouble-free service provided it is given proper care. Throwing, dropping, bumping across the thresholds and other misuse may result in a damaged unit and invalidate the warranty. For best results, use a clean pad and change frequently as pad loads up. When storing your floor machine, always remove the pad and brush.

It is not necessary to lubricate this machine. Lubrication has been applied and permanently sealed at factory.

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# TROUBLESHOOTING GUIDE

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Symptom	Possible Cause	Corrective Action
Motor Won't Run	1. Blown fuse or tripped circuit breaker at wall panel	1. Replace fuse or reset circuit breaker
	2. Defective switch	2. Replace switch
	3. Defective power cord	3. Replace power cord
	4. Defective rectifier	4. Replace rectifier
Polisher Runs Slows	1. Low line voltage	1. If voltage under recommended minimum, check size of wiring from main switch
	2. Pad loaded, heavily soiled	2. Clean or replace pad
Machine Noisy	1. Defective motor	1. Return to service center
	2. Defective gear box	2. Return to service center
	3. Wheels vibrating	3. Return to service center
Red Neon Lamp Is On	1. Worn motor brushes	1. Replace brushes

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## LIMITED WARRANTY

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This floor machine's motor and gearbox are warranted for 3 years from the date of purchase as shown on your distributor's invoice. Parts not covered under warranty are power cords, filters, motor brushes and squeegee blades. The warranty covers only failure due to defective parts or workmanship and will be invalidated by improper application and abuse.

Under ***NO*** circumstance should you return a failed unit to the factory. If you experience any problems with your machine during the warranty period, contact Customer Service.

