

PULLMAN-HOLT

Operation & Care Instructions

Save For Future Reference

PHC17F, PHC20F Floor Machine

This floor machine is a high quality, precision made product. All parts used in the manufacturing of this 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 machine was protectively packed to prevent possible damage in transit. Should damage have occurred, please file a claim immediately with the carrier who delivered the product to you. You must file the freight claim. We, as the shipper, cannot do this for you.



IMPORTANT SAFEGUARDS

MOTOR:

This machine is powered by a 1.5 HP AC motor. Be sure your power supply agrees with the voltage marked on name plates. Voltage decreases of more than 10% can cause the motor to burn out.

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

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

GROUNDING INSTRUCTIONS

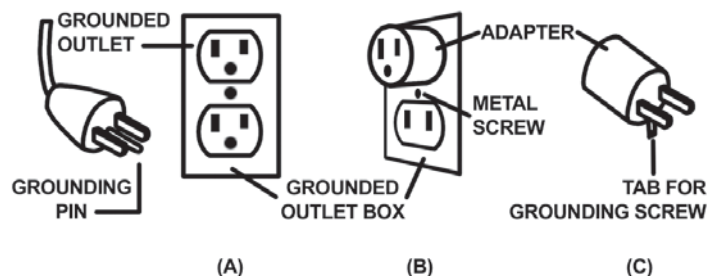
This appliance must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having equipment grounding conductor and grounding plug. The plug must be inserted into 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 below. 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 screws.

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



ABOUT THE MACHINE

To Assemble:

Refer to separate assembly instruction sheet enclosed.

To Adjust Handle:

The handle adjustment is controlled by a "star latch" 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 latch 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 LOCKED POSITION.**

Brush Attachment and Removal:

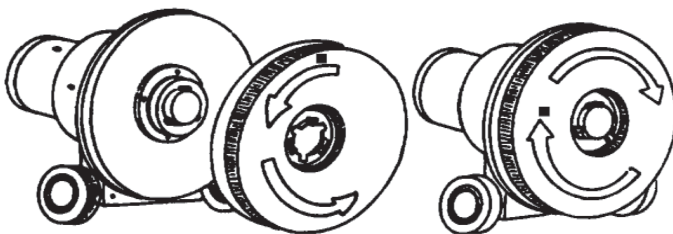


Figure 1

To attach brush

To remove brush

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 gearbox. Turn the brush as shown in Fig. 1 as far as it will go. The brush is now seated in ready-to-use position. TO REMOVE BRUSH, disengage clutch plate slots from the gear box by turning clockwise. DO NOT OPERATE THIS MACHINE WITHOUT SCRUB BRUSH OR DRIVE BRUSH AND PAD IN PLACE. NEVER POSITION RUNNING MACHINE OVER AN UNATTACHED BRUSH.

To Attach Pad:

If a pad is to be used, a pad drive (not a scrubbing brush) must first be installed as shown in the preceding paragraph. Place the pad on the brush bristles and push the pad firmly onto the brush. Be sure the pad is properly centered on the brush.

To Start:

With the power cable plugged into a proper outlet, release safety latch and squeeze the switch bar beneath the handle grips. This machine is equipped with a mechanical safety lockout on the left handle bar to prevent accidental startup. The lockout must be pushed forward with the operators left thumb before the switch bar can be moved.

To Operate Safety Latch:

The operator must manually rotate the latch with the left thumb before the trigger can be depressed to start brush rotation. When the trigger is released, the safety latch snaps back into position. This will prevent accidental machine startup.

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 left. **WARNING: 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 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.

Pads can be cleaned by washing in warm water and a mild detergent, rinsing, and hanging up to dry.

Do not lubricate this machine. Lubrication has been applied and permanently sealed at the factory.

Machine Serial Number:

To obtain qualified service, you may need the serial number of the machine when requesting service under warranty or when ordering certain parts. The serial number is found on the data plate located on the machine chassis, NOT on the motor data plate.

Brush, Floor Machine and Burnisher Size Determination:

The numerals contained within the machine model designation indicate the nominal machine size. In all cases the nominal size is determined by the full spread of the bristles of a long bristle scrub brush on a floor surface when under the weight of a floor machine. The spread of a short or stiff bristly brush will be somewhat less. The brush block diameter will always be two (2) inches less than the nominal brush size, i.e., a 20" brush will have an 18" diameter block. In like manner, the opening on the underside of a machine will be about 1 to 1.5 inches smaller than the nominal machine size, i.e., a 20" machine will have an opening of about 18.5 to 19 inches in diameter.

WARNING

Connect power cord only to an electrical supply the same as shown on the motor data plate. Connecting to the wrong voltage supply will result in damage not covered by warranty and may cause personal injury.

NOTE: 220 volt machines are shipped without a plug on the end of the power cord due to the many styles of 220 volt plugs in use. Have a qualified electrician attach the proper plug for your location to the cord end.

WARNING

OF POTENTIAL INJURY:

Moving Parts - To reduce the risk of injury, unplug before servicing.

Fire or Explosion - Do not operate machine in the vicinity of flammable or explosive vapors. Never use flammable liquid to clean a floor.

TROUBLE SHOOTING GUIDE:

<i>PROBLEM</i>	<i>POSSIBLE CAUSE</i>	<i>CORRECTIN</i>
Machine won't start	<ul style="list-style-type: none"> • Power cord not properly plugged into wall outlet. • Blown building fuse or tripped circuit breaker. • Tripped machine circuit breaker (burnishers only). • Damaged power cord or plug. • Broken connection or wire inside switch box. • Failed switch or circuit breaker (burnishers only) inside switch box. • Failed motor capacitor. • Motor pigtail disconnected from handle cord set. • Failed motor. 	<ul style="list-style-type: none"> • Fully engage plug with outlet receptacle. • Replace fuse or reset circuit breaker • Reset circuit breaker. • Replace with proper 3-wire cord and plug.* • Tighten connection or replace wire.* • Replace switch or circuit breaker.* • Replace capacitor with one identical to the original.* • Connect properly and cover joint with restraint (B525311) • Repair or replace motor.*
Machine starts but won't reach or hold running speed (may be accompanied by a "clicking" noise)	<ul style="list-style-type: none"> • Failed motor starting switch. 	<ul style="list-style-type: none"> • Replace both rotating and stationary portions of switch.*
Machine trips building circuit breaker	<ul style="list-style-type: none"> • Building circuit is overloaded. • An electrical short exists within the machine. • Pad is loaded with dirt or floor finish residue. • Low electrical supply voltage. • Undersized extension cord. 	<ul style="list-style-type: none"> • Remove and turn off other electrical devices on the same circuit or plug machine into a different circuit. • Locate and fix the short.* • Replace and wash pad. • Check voltage at wall outlet with an electrical load on circuit. If less than 108 volts, building wiring is probably inadequate. Plug machine into a different circuit.* • Refer to operation and care instruction for proper cord size.
Circuit breaker in machine switch box trips (burnishers only)	<p>REFER TO SECTION "MACHINE TRIPS BUILDING CIRCUIT BREAKER"</p> <p>Additional burnisher related possible causes.</p> <ul style="list-style-type: none"> • Faulty breaker • The handle is locked (on "floating head" models). • Using the wrong pad. • Using excessive amount of spray buff or restorer. 	<ul style="list-style-type: none"> • Replace breaker. • Unlock the handle to allow machine head to float. • Use bugging pads only. Never use a scrubbing or stripping pad. • Apply these materials very sparingly to a floor. Excessive amounts are not necessary and are sticky and resist pad rotation on the floor.
Operator feels a shock or "tingle" when operating machine.	<ul style="list-style-type: none"> • Improper or not ground in wall outlet. • Ground prong damaged or missing on power cord. • Ground (green) wire loose or missing inside switch box. • Terminal or uninsulated wire or stray wire strand in contact with machine frame, handle pipe, or switch box. 	<ul style="list-style-type: none"> • Replace plug or entire cord if damaged.* • Replace or tighten wire.* • Find and repair damaged or dislocated conductor.*
WARNING: This complaint usually indicates an electrical defect which can result in serious personal injury. Do not continue to operate the machine until corrective action has been completed.		
Machine "bogs down" during operation	<ul style="list-style-type: none"> • Machine underpowered for application EXAMPLE: Using a 3/4 H.P. machine for carpet scrubbing. • Undersized extension cord. • Low electrical supply voltage. 	<ul style="list-style-type: none"> • Use properly powered equipment. • Refer to operation and care instructions for proper cord size. • Check voltage at wall outlet, if less than 108 volts under load, plug machine into a different circuit.

PULLMAN-HOLT

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