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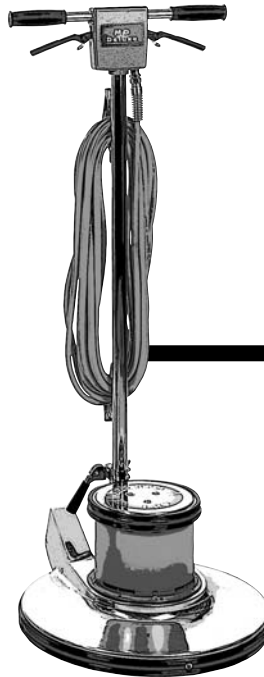
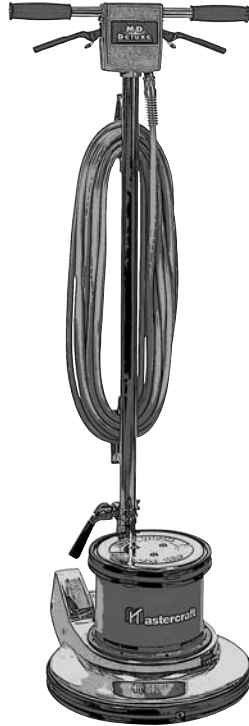
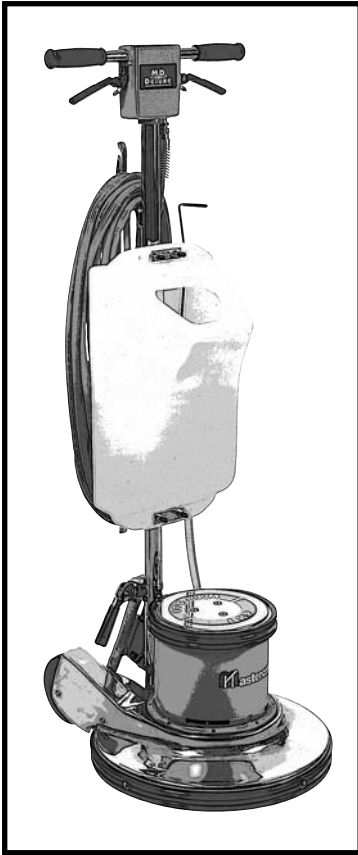
MASTERCRAFT MD-20E Owner's Manual

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----- Manual continues below -----



175 RPM STANDARD FLOOR MACHINE SAFETY & MAINTENANCE MANUAL

This unit is intended for commercial use.

READ & FOLLOW ALL INSTRUCTIONS, WARNINGS & CAUTIONS BEFORE USING THIS FLOOR MACHINE

This floor machine will afford you many years of trouble free operating satisfaction if it is given proper care. All parts have passed rigid quality control standards before being assembled to produce the finished product. Prior to packaging, the units are again inspected for assurance of flawless assembly.

This floor machine was protectively packed to prevent damage in shipment. We recommend that upon delivery, remove the unit from its carton and carefully inspect it for any possible damage in transit.

If damage is discovered, immediately notify the transportation company that delivered

your floor machine. As a shipper, we are unable to act upon any claim for concealed damage. You must originate any claim within 5 days of delivery.

These instructions are for your protection and information. **PLEASE READ CAREFULLY!** Failure to follow these precautions could result in injury or discomfort.

Treat this floor machine as you would any other high grade precision made product. Throwing, dropping, unreasonable bumping across thresholds and other misuse may result in a damaged unit and invalidate the warranty.

**PLEASE READ
CAREFULLY
BEFORE
OPERATING**

SAVE THESE INSTRUCTIONS

PAGE 1

175 RPM Floor Machine Manual - PN 344346 Rev C - Printed in USA 11/29/05

IMPORTANT SAFETY INSTRUCTIONS



WARNING:

To reduce the risk of fire, electric shock or injury;
Read all instructions before using this floor machine.
When using this floor machine, basic precautions should always be followed,
including the following:

- 1) **DO NOT** leave this machine plugged in when not in use. Unplug from outlet when not in use and/or before servicing.
- 2) Electric shock could occur if exposed to rain. Store indoors.
- 3) This is **NOT** a toy. Close attention is necessary when used around or near children.
- 4) Use only as described in this manual. Use only manufacturer's recommended attachments.
- 5) **DO NOT** use with damaged cord plug. If the floor machine is not working as it should because it has been dropped, damaged, left outdoors, or dropped into water, contact the manufacturer or authorized service center.

- 6) **DO NOT** pull or carry by cord, use power cord as a handle, close a door on cord, or pull cord around sharp edges or corners.
- DO NOT** run floor machine over the cord. Keep cord away from heated surfaces.
- 7) **DO NOT** handle the plug or operate with wet hands.
- 8) **DO NOT** put any object into the motor openings.
- 9) **DO NOT** unplug by pulling on cord. To unplug, grasp plug, not the power cord.
- 10) Keep hair, loose clothing, fingers and all parts of body away from moving parts.
- 11) **DO NOT** operate where oxygen or anesthetics are used.

- 12) **DO NOT** use around flammable or combustible liquids such as gasoline or use in areas where they may be present.
- 13) **DO NOT** use an extension cord unless absolutely necessary. If an extension cord is used, then wire size must be #14 gauge or thicker and should not exceed 50 feet in length. Use only a 3 wire grounded extension cord to ensure grounding protection.
- 14) Replace damaged or worn parts immediately with genuine original equipment parts to maintain safety and protect your limited warranty.
- 15) Floor sanding can result in an explosive mixture of fine dust and air. Use a floor sanding machine only in a well ventilated area.

GROUNDING INSTRUCTIONS

This floor machine must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electrical current to reduce the risk of electric shock. This machine is equipped with a cord having an equipment-grounded plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded

in accordance with all local codes and ordinances

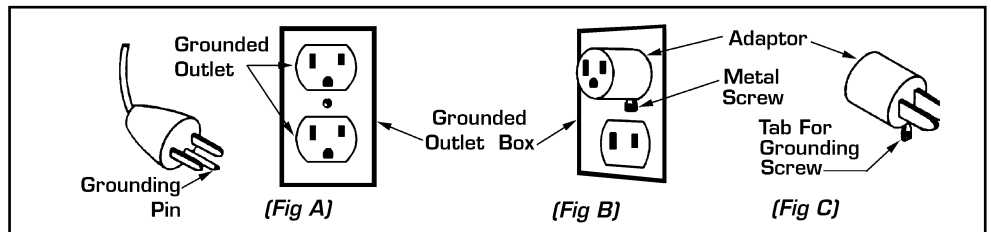
If repair or replacement of the cord or plug is necessary, **DO NOT** connect the grounding wire to either flat blade terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

GROUNDING METHODS



DANGER:

Improper use of the grounding plug can result in a risk of electrical shock.



This floor machine is for use on a nominal 120 volt circuit, and has a grounding plug that looks like the plug illustrated in (Fig A). A temporary adaptor that looks like the adaptor illustrated in (Fig B & C) may be used to connect the plug to a 2-pole receptacle as shown in (Fig A) 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 color rigid ear, lug, or 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 the metal screw (Fig C).

WARNING:



Improper connection of the equipment-grounding conductor can result in a risk of electrical shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded.

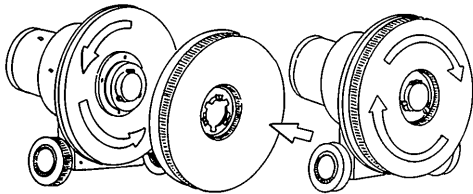
DO NOT modify the plug provided with the machine. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.

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

**CAUTION:**

Always install the brush/pad driver by hand.
“NEVER” lay brush/pad driver on the floor, position the machine over it, and turn the machine ON to lock brush/pad driver in place. This is called **JUMPING** the brush and is dangerous.

BRUSH/PAD DRIVER INSTALLATION



This floor machine is designed for many different floor cleaning applications. It is important to select the correct brush or floor pad depending upon the type of cleaning operation you are doing.

When using floor pads, to achieve the best results use clean pads and change them as they load up.

Brush/Pad Installation:

- 1) Unplug the power cable and **LOCK** the handle in the upright position.
- 2) Tilt the machine back until the handle is laying on the floor and underside of the machine is fully exposed.
- 3) Holding the pad driver/brush in both hands, straddling the motor with your

back to the handle, bend over and fit the three slots of the clutch plate over the three lugs of the drive plate.

- 4) Turn the brush counterclockwise as far as it will go. It is now seated and ready for operation

Note: The brush/pad surface should be flat and level on the floor.

Brush/Pad Removal:

Disengage clutch plate slots from drive plate lugs by turning clockwise.

**CAUTION:**

DO NOT leave a plugged in floor machine unattended.
 Always unplug the machine before leaving to prevent accidental startup.

OPERATING INSTRUCTIONS

This floor machine is designed to move from side to side. Begin operating at the closest possible point to an electrical outlet and work away from the outlet. This will prevent running over the electrical cord.

Note: Before installing the brush/pad driver, plug in the machine and make sure the motor is only running when the triggers are activate and not before.

Setup for operation:

- 1) Install pad driver/brush (*see instructions above*) and plug in power cable.
- 2) Adjust the handle by pulling up on the clamping lever located at the rear of the machine.
- 3) Pull the handle toward you until you reach a comfortable operating position.

- 4) Step down firmly on the clamping lever and lock handle place.

Note: When transporting the machine or attaching pad driver/brush, handle must be **LOCKED** in the upright position.

- 5) Place your hands on the handle grips and squeeze trigger locks beneath grips to activate the motor and start the brush operating.

To begin operating:

- 1) To move unit right, slowly apply slight upward pressure. As the handle is raised higher, the faster it will move to the right.
- 2) To move unit left, slowly apply slight pressure downward. As the handle is lower, the faster it will move to the left

- 3) To move unit forward or backward, keep brush/pad surface flat on the floor and push or pull machine in the direction required.

- 4) To stop the floor machine, release triggers.

Machine wobbles or vibrates:

- 1) Adjust by turning the pad or brush $\frac{1}{3}$ turn, then reinstall on machine.
- 2) Inspect the brush/pad driver for warpage or out of round. Lay floor machine down on handle with brush/pad driver in place. With machine running, observe if brush/pad driver appears to wobble or is out of round. Replace if this problem occurs.

**CAUTION:**

Never turn this floor machine ON with handle locked in the upright position.

FLOOR MACHINE MAINTENANCE

- 1) After each use, wipe off all polished and painted areas with a clean cloth.
- 2) Always remove the pad driver/brush when the machine is not in operation, and hang on a peg or lay flat on its back. **NEVER** store pad driver/brush with the bristles down.

- 3) With floor machine unplugged, check power cord for any breaks in the wire. Breaks will most likely occur near the plug or switch. Any breaks should be repaired or replaced immediately.

TROUBLE SHOOTING GUIDE



WARNING:

Always disconnect the power cable from the electrical outlet when working on the floor machine.

PROBLEM: Motor won't run.

CAUSE

- 1) Defective switch.
- 2) Defective power cord or wiring.
- 3) Defective motor.
- 4) Blown fuse or tripped circuit breaker at wall panel.

SOLUTION

- 1) Check switch, replace if defective.
- 2) Check and replace if defective.
- 4) Have motor checked by an authorized service center.
- 4) Replace fuse or reset circuit breaker. If this does not correct the problem, have machine checked by an authorized service center.

PROBLEM: Machine bogs down and runs slow.

CAUSE

- 1) Defective capacitor, rotor switch or stationary switch.
- 2) Circuit may be overloaded with more than one appliance.
- 3) Low line voltage in building.
- 4) Pad loaded, heavily soiled.

SOLUTION

- 1) Have machine checked by an authorized service center.
- 2) Plug machine in to a dedicated power outlet. If the problem still exists there could be a short. Have the floor machine checked by an authorized service center.
- 3) If wiring is old in the building have voltage checked by the power company.
- 4) Clean or replace pad.

PROBLEM: Motor runs, brush/driver won't rotate.

CAUSE

- 1) Drive coupler is broken or gear box is defective.

SOLUTION

- 1) Contact the manufacturer or authorized service center.

PROBLEM: Noisy machine.

CAUSE

- 1) Defective motor or gear box.

SOLUTION

- 1) Contact the manufacturer or authorized service center.



WARNING:

**RISK OF EXPLOSION
THE MACHINE IS NOT INTENDED FOR FLOOR SANDING.
FLOOR SANDING CAN RESULT IN AN EXPLOSIVE MIXTURE
OF FINE DUST AND AIR.**



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