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# MASTERCRAFT MTS-20E Owner's Manual

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# SAFETY, OPERATION AND MAINTENANCE MANUAL

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## HIGH, DUO & VARIABLE SPEED FLOOR MACHINE

This unit is intended for commercial use.



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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 floor machine is 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

# 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 the 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.

## 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:

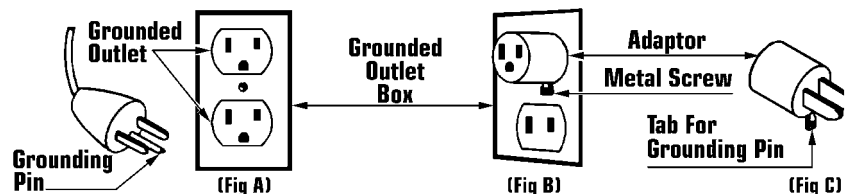
Improper use of the grounding plug can result in a risk of electrical shock.



### WARNING:

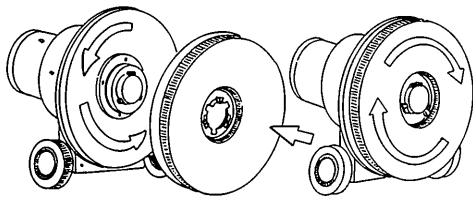
Improper connection of the equipment-grounding conductor can result in a risk of electrical shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. **DO NOT** modify the plug provided with the burnisher. If it will not fit the outlet, 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.



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).



The 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.

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

### Brush/Pad Installation:

- 1) Unplug the power cable and **LOCK** handle in 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 brush counterclockwise as far as it will go. It is now seated and ready for operation.

### Brush/Pad Removal:

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

## BRUSH/ PAD DRIVER INSTALLATION

### CAUTION:

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



The handle adjustment is controlled by a clamping lever located at the rear of the machine at the base of the handle tube.

1) To release, pull up on the clamping lever and pull back on the handle to a comfortable operating position.

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

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

## HANDLE ADJUSTMENT

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

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

### Setup for operation:

- 1) Install pad driver/brush and plug in power cable.
- 2) Adjust handle to a comfortable operating position and lock clamping lever in place.
- 3) 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 machine, release triggers.

## OPERATING INSTRUCTIONS

### CAUTION:

DO NOT operate this machine without brush or pad driver and pad in place. Never attempt to lock brush/pad driver on floor machine by positioning **(JUMPING)** running floor machine on unattached brush/pad drive.



# FLOOR MACHINE MAINTENANCE



## CAUTION:

Disconnect plug from wall before leaving the floor machine unattended to prevent accidental startup.

- 1) After each use, wipe off all of 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.
  - 3) **NEVER** store pad driver/brush with the bristles down. This will ruin the balance of the brush and cause machine to wobble.
  - 4) 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.
  - 5) When machine is not in use, remove pad driver/brush, wrap power cord around cord hooks and store in a dry area.
- 6) If the machine wobbles or vibrates:**
- A) Adjust by turning pad or brush  $\frac{1}{8}$  turn, then reinstall on machine.
  - B) Inspect the pad driver/brush for warpage or out of round. Lay floor machine down on handle with pad driver/brush in place. With machine running, observe if pad driver/brush appears to wobble or is out of round. Replace if this problem occurs.
- You are not required to lubricate this machine. Lubricant has been applied and permanently sealed at the factory.

# TROUBLE SHOOTING GUIDE



## ADDRESS:

777 South Street  
Newburgh, N Y 12550-0606

## TEL:

(800)835-7812  
(845)565-8850

## FAX:

(800)752-6883  
(845)565-9392

## INTERNET ADDRESS:

[www.mastercraftusa.com](http://www.mastercraftusa.com)  
[techsupport@mastercraftusa.com](mailto:techsupport@mastercraftusa.com)

## PROBLEM: Motor won't run.

### CAUSE

1. Blown fuse or tripped circuit breaker.
2. Defective switch.
3. Defective power cord.

### SOLUTION

1. Replace fuse or reset circuit breaker at wall panel.
2. Replace switch.
3. Replace power cord.

## PROBLEM: Floor machine runs slow.

### CAUSE

1. Low line voltage.
2. Pad loaded, heavily soiled.

### SOLUTION

1. If voltage is under recommended minimum, check size of wiring from the main switch. If okay, contact the power company.
2. Clean or replace pad.

## PROBLEM: Noisy machine.

### CAUSE

1. Defective motor or gear box.

### SOLUTION

1. Contact the manufacturer or authorized service center.



## WARNING:

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

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# DUAL SPEED FLOOR MACHINE OPERATION INSTRUCTIONS (190 - 320 RPM)

The Dual Speed Floor Machine operates at 190 RPM for polishing or scrubbing and at 320 RPM for spray buffing floors.

It is designed to be used with a pad driver and pad, polish brush or scrub brush on bare floors.



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## OPERATION INSTRUCTIONS

Begin operating the Dual Speed Floor Machine at the closest point to your electrical outlet and work away from the outlet. This will prevent running over the electric cord.

Always remove brush or pad driver when machine is not in operation. Hung brush on a wall peg or laid flat on its back.

**NEVER** store the brush with bristles down. This will ruin the balance of the brush which will cause machine to wobble.

### **If machine wobbles, vibrates or pulls, follow these instructions.**

**A.** Never let machine set on brush, pad driver or insta-lock when not in use. A few minutes with machine setting idle on brush will cause bristles to lose their normal shape, causing uneven operation.

**B.** If wobble continues, adjust by turning brush  $\frac{1}{3}$  turn and reinstall on machine.

### **Inspect brush for warped or out of round block:**

**A.** Lay the machine down on the handle with brush in place. With unit running, observe if brush appears to wobble or is out of round. This is the main reason for wobble or vibration and if it occurs brush must be replaced.

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**1)** After each use, wipe off all of polished and painted areas with a clean cloth.

**2)** Check 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.

**3)** When machine is not in use, remove brush or pad driver, wrap power cord around cord hooks and store machine in a dry area.

## MAINTENANCE