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MASTERCRAFT MCL-24STD Owner's Manual

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QUARRYMASTER™ FLOOR MACHINE SAFETY, OPERATION & MAINTENANCE MANUAL

This unit is intended for commercial use.

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



Address:

777 South Street ♦ P.O. Box 2310
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TEL:

800.835.7812 ♦ 845.565.8850

FAX:

800.752.6883 ♦ 845.565.9392

Internet Address:

www.mastercraftusa.com
techsupport.mastercraftusa.com

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 unit 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.

READ ALL INSTRUCTIONS BEFORE OPERATING

SAVE THESE INSTRUCTIONS

PAGE 1

IMPORTANT SAFETY INSTRUCTIONS



WARNING:

To reduce the risk of fire, electric shock or injury:
When using an electric floor machine,
basic precautions should always be followed, including the following:

- 1) DO NOT** leave this floor machine plugged in when not in use. Unplug the machine from the outlet when not in use and 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 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 the power cord as a handle, close a door on cord, pull cord around sharp edges or corners.
- 7) DO NOT** run the machine over the cord. Keep the cord away from heated surfaces.
- 8) DO NOT** unplug by pulling on cord. To unplug, grasp the plug, not the power cord.
- 9) DO NOT** handle the plug or operate with wet hands.
- 10) DO NOT** put any objects into motor openings.
- 11)** Keep hair, loose clothing, fingers and all parts of the body away from moving parts.
- 12) DO NOT** operate the machine where oxygen or anesthetics are used.
- 13) DO NOT** use around flammable or combustible liquids such as gasoline or use in areas where they may be present.
- 14) 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 three-wire grounded extension cord to ensure grounding protection.
- 15)** Replace damaged or worn parts immediately with genuine original equipment parts to maintain safety and to protect your limited warranty.
- 16)** Floor sanding can result in an explosive mixture of fine dust and air. Use a floor sanding machine only in a well ventilated area.



WARNING:

DO NOT use this floor machine for sanding possible motor damage may occur and the mixture of fine dust and air can result in an explosive. Use a floor sanding machine only in a well ventilated area.

SAVE THESE INSTRUCTIONS



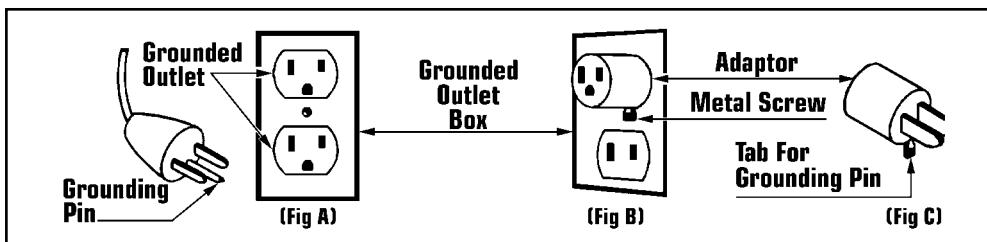
DANGER:

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

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

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 the 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.

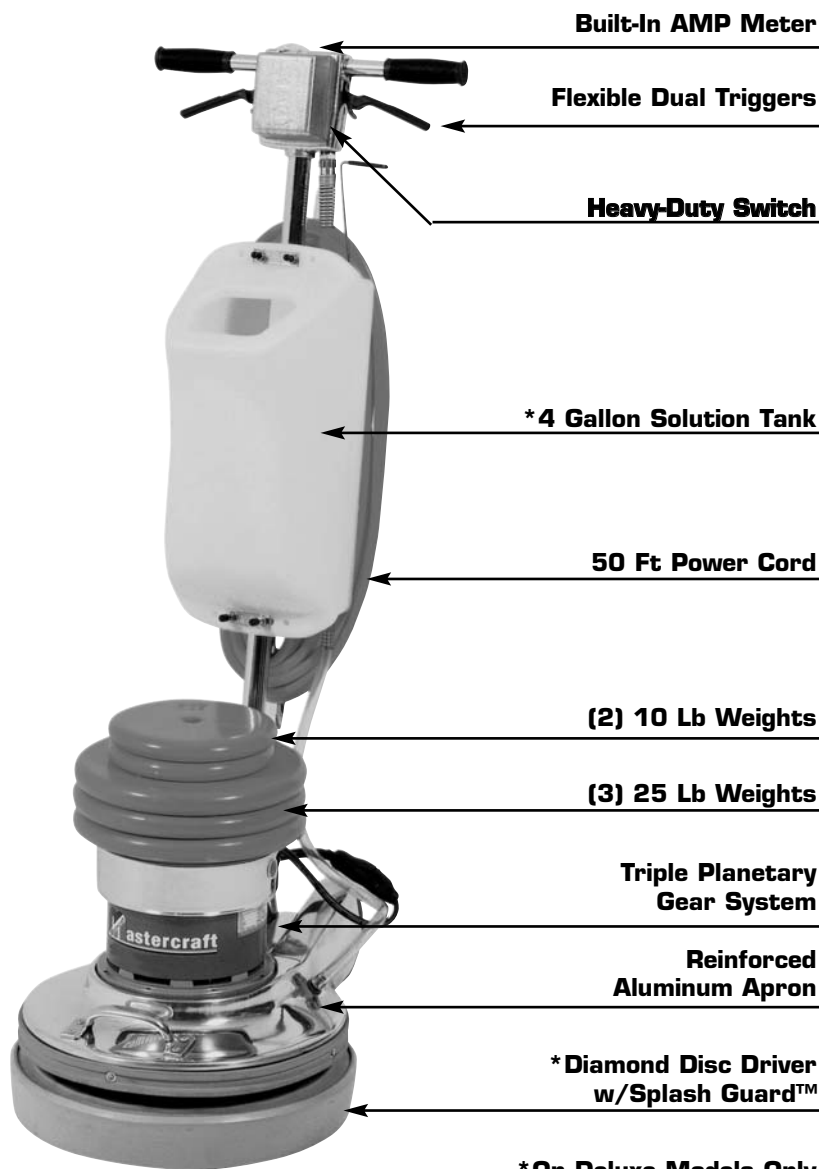
DO NOT modify the plug provided with the burnisher. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.

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

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.

CARE OR THIS FLOOR MACHINE

ABOUT THE QUARRYMASTER™ FLOOR MACHINE



* On Deluxe Models Only

The floor machine is designed to clean and restore all types of stone and run for a long period of time without overheating, with low amperage. The "Select-A-Weight™" system allow the operator of adjust the weight load required for the job being preformed.

FEATURES:

◆ Oversize Handle Grips

Better control, reduces fatigue.

◆ Built-In AMP Gauge

Constantly monitors current draw, helping operator to select the correct weight.

◆ Flexible Dual Triggers

Non-conductive with built-in lockouts to prevent accidental startup. Operate with left or right hand.

◆ Solution Tank*

Dispenses liquid for scrubbing, polishing and diamond cutting.

◆ Axle w/6 Mounting Points

Reinforced on the outside and inside of wheels, strengthens the axle in order to handle the additional weights.

◆ Cast Aluminum Apron w/Lift Handle

Reinforced for added strength and rigidity. Shields the transport wheels to prevent damage.

■ "Select-A-Weight™" System

Vinyl coated discs with stainless holder. Allows operator to adjust surface pressure for multiple tasks, while staying within recommended amperage range.

■ DC Motor

Rectified for AC operation, runs at a reduced amperage.

■ Enhanced High Torque, Triple Planetary Gear Box

Permanently lubricated, operates at 140 RPM with 1 1/2 HP motor.



Diamond Pad Driver*

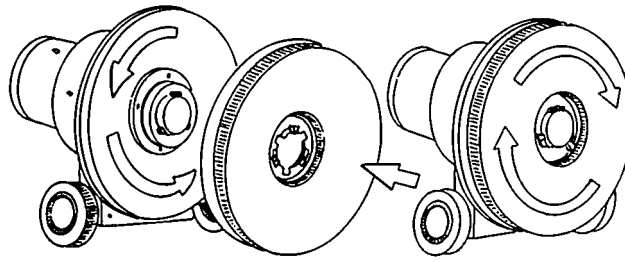
Flexible velcro holder for quick changing of diamond discs with splash guard to contain the slurry.

*On Deluxe Models

INSTALLATION AND REMOVAL OF DIAMOND PAD DRIVER

To Install Pad Driver:

- 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 driver in both hands straddling the motor with your back to the handle.
- 4) Bend over and fit the three slots of the clutch plate over the three lugs of the drive plate.



- 5) Turn the diamond pad driver counter-clockwise as far as it will go.
- 6) Attach the diamond discs to the velcro holders.

To Remove Pad Driver:

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



CAUTION:

DO NOT operate this machine without the diamond pad driver w/discs, pad driver or brush in place.

Never attempt to lock pad driver/brush on floor machine by positioning **(JUMPING)** running floor machine on unattached pad driver/brush.

The handle adjustment is controlled by a lever located at the rear of the machine at the base of the handle. To release, pull up on the upper portion of the lever, then pull back on the handle to appropriate operating height.

Step down on the lever to lock handle in selected position. When transporting or attaching pad driver/brush, handle must be **LOCKED** in the upright position.

HANDLE ADJUSTMENT

The QuarryMaster is designed to move from side to side. Raise handle **SLIGHTLY** to guide right. Lower handle **SLIGHTLY** to guide left.

- 1) Plug in the power cable.
- 2) With pad driver/brush in position, adjust handle and lock into a comfortable operating position.

- 3) Place hands on handle grips and squeeze trigger locks beneath grips. This will activate the motor and start the pad driver/brush operating.

- 4) Begin operating the machine at the closest possible point to an electrical outlet and work away from the outlet. This will prevent running over the electrical cord.

OPERATION INSTRUCTIONS

**NEVER TURN THIS MACHINE ON
WITH HANDLE IN LOCKED UPRIGHT POSITION.**

PREPARATION FOR STONE RESTORATION

- 1)** Remove furniture from the area and cover adjoining floors, foot rails, baseboards, door edges, furniture, etc with poly film and tape edges.
- 2)** Remove all dirt, wax, floor finish or floor sealer entirely by properly stripping, rinsing and allowing the floor to dry completely before proceeding. Be sure floor is neutralized with a neutral cleaner.
- 3)** Setup "Caution Wet Floor" signs and rope off the area.

- 4)** Fill a 5 gallon pails with water and keep at your disposal.
- 5)** Fill quart containers with water to use for the diamonds.
- 6)** Fill the floor machine solution tank and AquaRinse™ ring tank, wet/dry vacuum or mop bucket with water.



IMPORTANT:

When operating this floor machine the AMP meter must register in the GREEN for maximum coverage, and to prevent overloading.

Operating this floor machine with the meter registering in the RED can cause damage to the motor.

MARBLE RESTORATION PROCEDURES

- 1)** Inspect the floor for lippage. This is where one tile is higher than the other or seams are not flush or level. When lippage is thicker than a quarter, lippage diamonds must be used. Proceed using all the steps.
- 2)** Check for deep scratches. If there are deep scratches, start with a 200 grit metal bond diamond.
- 3)** Select the grit of diamonds to be used. Use the separate quart water containers to rinse the various diamond. It is important to keep diamonds separated so you do not cross contaminate.
- 4)** Release some water from the solution tank to lubricate the diamonds, then turn on the machine. It is important to keep an ample amount of water on the floor to lubricate the diamonds.
- 5)** Use a side to side motion, then forward and back motion to keep floor level. Make a total of (4) passes or (2) cycles at moderate speed, with about a 30% overlap, (See Pg 8 for diagram).

- 6)** Using a lighted magnifying glass, inspect the floor for uniformity of scratch patterns.
- 7)** Rinse the floor thoroughly and proceed to the next diamond grit (400M, 500RB 800RB).
- 8)** Repeat the above steps until job is completed.
- 9)** When the floor has dried completely with no residue left, apply a marble finisher. We recommend Crystal Clear™ Marble Finisher. This will enhance and condition the floor.

Application Instructions:

- 1)** Use approximately 35 lbs of weight on the machine and a #0 or #1 steel wool pad.
- 2)** **MIST** 2 or 3 squirts of marble finisher in a 3 Ft X 3 Ft area and run machine until the desired look is achieved.

Note: It is better to use less chemical,

TERRAZZO RESTORATION PROCEDURES

1) Mop the floor with strong stripping solution and allow time for it to activate.

2) Using this machine with 35 to 50 lbs additional weight, place the machine on a black stripping pad with a silicate carbide sanding screen and begin stripping the floor.

3) Always keep the floor wet, **DO NOT** let it dry. When finished pickup the slurry with a AquaRinse™ Vacuum System or wet/dry vacuum.

4) Fill AquaRinse™ Solution (Ring) Tank or mop bucket with a neutral cleaner solution and rinse the floor. Then vacuum the floor.

5) Add 25 to 35 additional lbs to the QuarryMaster™, and attach the diamond disc driver with 120 Black or 200M Red Diamond Pad. In most cases you will begin with these pads.

6) Release some water from the solution tank to lubricate the diamonds. It is important to keep an ample amount of water on the floor to lubricate the diamonds.

7) When operating the QuarryMaster™ use a side to side motion, then a forward and back motion. This is to keep the floor level. Make a total of at least (4) passes or (2) cycles at a moderate speed, with about a 30% overlap. (See Diagram on Pg 8)

8) Inspect the floor for scratch pattern uniformity using a lighted magnifying glass.

9) Vacuum and rinse floor thoroughly with the AquaRinse™ or wet/dry vacuum, then proceed to the next diamond grit level.

10) Repeat steps 6 thru 9 when proceeding through each diamond grit.

11) When the floor has dried completely with no residue left, apply a marble finisher. We recommend Crystal Clear™ Marble Finisher. This will enhance and condition the floor.

Application Instructions:

A) Use approximately 35 lbs of weight on the machine and a #0 or #1 steel wool pad.

B) Mist 2 or 3 squirts of Crystal Clear in a 3 Ft X 3 Ft area and run machine to desired look is achieved.

Note: It is better to use less chemical, you can always reapply.

Floor Maintenance:

Maintain the floor with a dust mop on a daily basis. Every 2 to 3 weeks for heavy traffic or as needed repeat step 11 to keep up the floors appearance.

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

3) Remove the diamond disc from pad driver and rinse discs.

2) Always remove the pad driver/brush when the machine is not in operation, and hang it on a peg or lay flat on its back. **NEVER** store pad driver/brush with the bristles down.

4) When the machine is not in use, remove pad driver/brush, wrap power cord around cord hooks and store in a dry area.

5) If the machine wobbles or vibrates:

A) Adjust by turning pad driver/brush $\frac{1}{3}$ 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.

FLOOR MACHINE MAINTENANCE

TROUBLE SHOOTING GUIDE

PROBLEM: Motor won't run.

CAUSE

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

SOLUTION

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

PROBLEM: Floor machine runs slow.

CAUSE

1. Low in voltage.

SOLUTION

1. If voltage is under recommended minimum, check size of wiring from main switch. If okay, contact power company.

PROBLEM: Noisy machine.

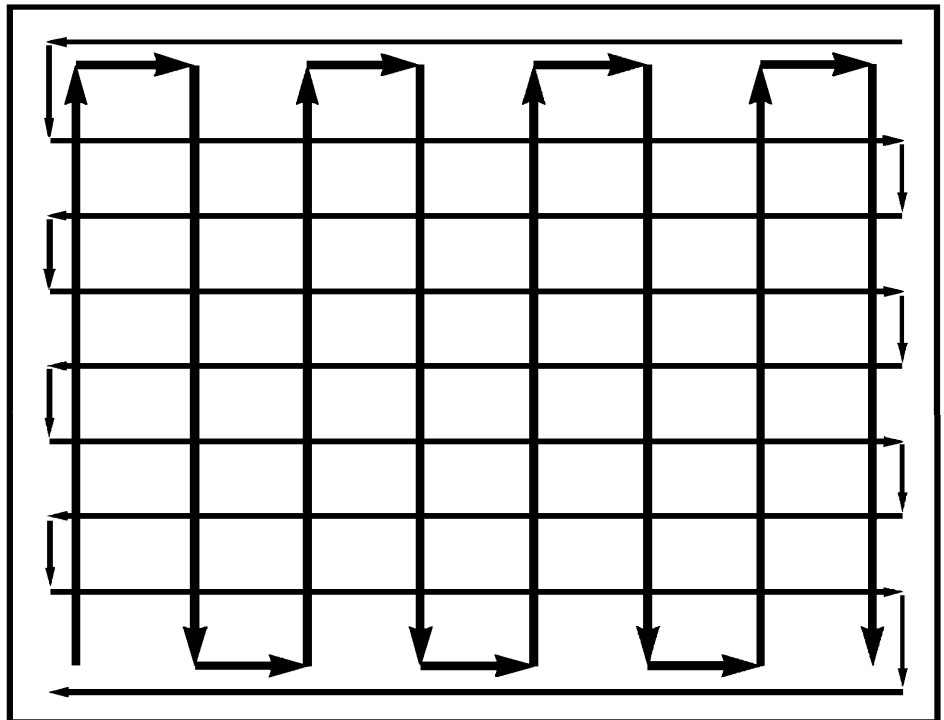
CAUSE

1. Defective motor or gear box.

SOLUTION

1. Contact the manufacturer or authorized service center.

CLEANING PASS DIAGRAM



**THIS DIAGRAM REPRESENTS
(2) PASSES OR (1) CYCLE
(LEFT TO RIGHT - UP AND DOWN)**