

# **Operator's Manual**

## **FM17 and FM20 Multifunction Floor Machine**



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## Safe Operation Instructions

Please read this manual carefully before operating this machine. This manual contains detailed safety instructions for equipment preparation, operation, and maintenance. The operator must follow these safety precautions to prevent accidents. The manufacturer will not be held responsible for any accident resulting from misuse or failure to fully understand these instructions.

### 1.0 Safety Notice



Attempting to operate this equipment without first reading the manual, may result in injury to the operator, nearby individuals, or surrounding objects. Training is recommended before using the FM17/FM20. If the operator is unable to understand the instructions, please have a qualified person provide proper training on how to operate this equipment.



Operation of this machine when not completely or fully assembled could result in injury or property damage. Do not operate the machine until it is completely assembled. Inspect the machine carefully before operation.



To reduce the risk of fire, use only commercially available floor cleaners and waxes intended for application by machine.



Risk of explosion: Floor sanding can create an explosive mixture of fine dust in the air. To minimize this risk, use this in a well ventilated area when using it for sanding.




Operating a machine without reviewing all labels and instructional information may result in injury or damage. Be sure to read all machine labels before use.





Always disconnect from the power source before performing maintenance or repairs. Additionally, remove the electrical plug from the outlet before changing the brush, pad or other attachments, and before leaving the machine unattended.





Using the machine with a damaged power cord can lead to electrocution. Do not operate the machine if the power cord is damaged, and never use the cord to move the machine.


 Always use a three-wire electrical system connected to a grounded electrical outlet. For optimal protection against electric shock, ensure the circuit is equipped with a ground fault interrupter. Consult an electrical contractor for assistance.

 Exposure to water or moisture can cause the electrical components of this machine to short-circuit. Keep the electrical components dry during use and wipe the machine down after each use. For storage, ensure the machine is kept in a dry location.


 To prevent damage to the power cord, avoid allowing the brush, pad driver, or wheels to come into contact with it during operation. Keep the power cord elevated above the machine.

 Use of this machine on steps or furniture could cause injury or damage. Do not operate the machine on steps or furniture. Do not stand or ride on it.

 To avoid injury, keep hands, feet and loose clothing away from all moving parts of this machine.

 An abrupt change in floor surface texture while using this machine can cause a sudden pulling motion, leading to potential injury for the operator or bystanders due to loss of control. To prevent this, avoid transitioning the machine from smooth floors to carpets or rough surfaces. Also, steer clear of low obstacles such as electrical outlets, door stops, or entry moldings that could cause the machine to make contact.

 Water solutions or cleaning materials used with this machine may leave wet areas on the floor, creating a potential hazard for the operator or others. Always place CAUTION signs near the cleaning area to alert people to the risk

 Maintenance and repairs performed by unauthorized personnel may result in damage or injury. Only authorized personnel should carry out maintenance and repairs. Ensure all fasteners are kept tight and adjustments are made according to the specified guidelines.

 The machine is heavy. Seek assistance before attempting to lift it for transport or move it off its wheels.

## 2.0 Machine instructions

The FM17/FM20 Single Disc Scrubber is a versatile and dependable floor cleaning machine designed for professional cleaning companies. With its straightforward design, smooth operation, and large solution tank, it excels at cleaning a variety of hard floor surfaces. The FM17/FM20 delivers the quality and performance required to meet the demands of professional cleaning.

### 2.1 Accessories

A pad driver B brush (option) C water tank (option) D additional weight piece (option)

Note: Not recommend to use additional weight piece using on 750W machine

### Technical Data

TYPE	FM17	FM20
POWER (W)	1100	1100
VOLTAGE (V)	110~125	110~125
FREQUENCY (Hz)	50~60	50~60
ELECTRICAL CURRENT(A)	14.4	14.4
CABLE SPECIFICATION	50 ft. Yellow 3 wire	50 ft. Yellow 3 wire
BRUSH PLATE DIA. (ins.)	17	20
PAD DRIVER DIA. (ins.)	17	20
BRUSH PLATE ROTATION SPEED (rpm)	154	154
WEIGHT (lbs)	45	55
Capacitor	Dual	Dual

### Technical Improvement Note:

UnoClean reserves rights to improve its technology without prior notice, which means the machine may not always align with the specifications and details provided in this manual.

# How to prepare the machine for operation



Before installing or replacing the pad drive, brush, or any other attachments, please unplug the power cord from the electrical outlet.

## 3.1 How to install brush or pad driver

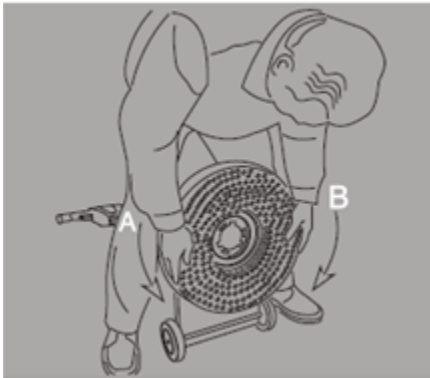


Figure 1



Figure 2

To install brush pad, follow the steps on below:

1, Tilt the machine backward until the handle touches the floor, see Figure 1,

2, Put your feet on each side of the machine, see Figure 1,

3, Align the lugs(1) on the locking plate into the brush pad Opening(2), see Figure 2,

4, To lock the brush pad into position, turn the brush or pad driver as indicated in Figure 2(A),

5, To unlock and remove the brush, turn the brush or pad driver as indicated in Figure 2(B).

**NOTE:** To prevent any damage to the brush or pad driver, remove the accessory while not in use. Keep the brush in cool, dry place.

## How to adjust the handle




To adjust the handle, please follow the steps below:

Pull up the level up at the bottom of the handle to relieve pressure, and adjust the handle to the desired operating position. Push the handle at the bottom of the handle back into locking position





**NOTE:** For the optimal operating position, keep your back straight and bend only your arms. Hold the handle close to your body for maximum control.

## 4.0 Power Connection

-  **The machine is for use with 120-volt alternating current. Do not drag the machine by the power cord.**
-  **It is recommended to use this machine with a grounded power source or an external GFCI adapter to reduce the risk of electrical shock. Do not operate it on an ungrounded circuit.**
-  **Only use the cord provided with the machine during operation. Do not connect it to an extension cord.**

## 5.0 How to operate the machine

### 5.1 How to start/stop the machine

-  **Never start the machine when the handle is in a vertical position. The handle features a start lock mechanism designed to prevent the machine from operating in this position.**
-  **Both hands of the operator should grip the handles when starting the machine.**



**Figure 3**

Start the machines based on following steps, see Figure 3:

- 1, Pull up the lever and adjust the handle to your suitable position. **A**
- 2, Engage the safety switch (on the side handle cover) **B**
- 3, Pull up the start lever 1 (both sides), start the machine. **C**

**NOTE:** To ensure safe operation, this machine features a design that requires both hands to engage the start levers simultaneously for the machine to operate.

## 5.2 How to control the machine

The machine's side-to-side movement is controlled by adjusting the handle. To move the machine left, gently press down on the handle; to move it right, lift the handle slightly.

Mastering these key points will make it easy to control the machine.

## 6.0 MAINTENANCE



**Maintenance and repairs must only be performed by authorized personnel.**

### Daily Maintenance

After use, remove the brush or pad driver from the machine and store them in a dry place. Clean the machine body with a dry cloth, empty and clean the water container, and inspect the power cord.



**If any detergent remains in the water container, it should be emptied and thoroughly rinsed with clean water. Leaving detergent in the tank can shorten the lifespan of the control valve.**



**Cleaning liquids sprayed on the machine surface can cause corrosion, especially on fasteners. Therefore, it is essential to immediately wipe off any sprayed liquid with clean water and thoroughly dry the area with a cloth.**



**Electrical repairs on the machine may only be performed by an authorized technician. Before beginning any electrical repairs, disconnect the machine from the power source. Once repairs are complete, the machine must be tested to ensure it is safe for operation.**

**Note:** "The machine features a safety interlock on the start/stop switch to prevent accidental operation. Additionally, a lock mechanism is activated when the handle is in the vertical position. If the start/stop switch is damaged and the machine fails to start, please return it to the nearest Authorized Service Center for switch replacement and testing.



## **Maintenance of the Motor**

**Do not attempt to disassemble the gear unit or motor. For any repairs to these components, please return the machine to an authorized service center.**



**Disassembling this machine will void any warranties or guarantees and forfeit your right to claim quality-related repairs or remedies under the product's warranty. Any issues resulting from disassembly will not be covered by the manufacturer or seller.**

**For safe operation and to extend the life of your UnoClean product, always use genuine UnoClean replacement parts.**

## 7.0 Troubleshooting Common Faults

Before contacting your local sales agency, please have an authorized professional check the following points to determine if the issue can be resolved through troubleshooting.

<b>Problem:</b>	<b>Possible Cause:</b>	<b>Solution:</b>
<b>Motor operates intermittently</b>	Power cable loose or falls off Power cable is broken Switch is broken	Check all the power cable connection Replace the power cable Replace the switch
<b>Motor does not work</b>	Power cable loose or falls off Power cable is broken Switch is broken Capacitor damaged Centrifugal switch damaged Loop short circuit	Check all the power cable connection Replace the power cable Replace the switch Replace the capacitor Replace the centrifugal switch Replace the stator resistor
<b>Motor rotation speed is very slow</b>	Capacitor damaged  Start loop failure	Check capacitor  Check the centrifugal switch
<b>Motor rotation driving disc does not work</b>	Gearbox Connection Failure	Replace the connection block
<b>Machine stops</b>	Electric circuit overloads Brush over loads Size of extension cable does not match Abnormal use	Check the load of all electric circuit Check, change operation manner Replace extension cable  Consult dealer
<b>Machine rocks or vibrate severely</b>	Brush/pad driver warp or damage Brush/pad driver are not in center position	Replace brush/pad driver Make brush/pad driver in center position
<b>Vibration noise</b>	Motor bearing broke Wheels loose	Replace motor bearing Fasten the wheels

## **PRODUCT GUARANTEE**

**This product is covered by a twelve-month guarantee from the original purchase date. Any defects resulting from faulty materials or workmanship will be replaced, refunded, or repaired, if possible, by the dealer from whom you purchased the unit during this period.**

### **Guarantee Provisions**

- The guarantee is valid only for products that are correctly installed, operated according to the provided instructions, and used solely for domestic purposes.
- The guarantee does not cover accidental damage, misuse, unit parts, knobs, consumable items, or damages caused by unauthorized repair.
- The guarantee is void if the product is resold.
- The manufacturer is not liable for any incidental or consequential damages and reserves the right to change specifications without notice.
- The guarantee does not affect your statutory or legal rights.