



# INSTRUCTION MANUAL



READ ENTIRE MANUAL BEFORE USE



**20" DUAL SPEED ROTARY FLOOR MACHINE**  
**#978LAVP20D**

08/2020

# GENERAL SAFETY RULES

**WARNING:** Read all safety warnings and instructions prior to use.

Failure to follow all warnings and instructions may result in electric shock, fire, and/or serious injury.

**Save all warnings and instructions for future reference.**

The term “floor machine” in the warnings refers to your corded floor machine.

## 1. WORK AREA SAFETY

- a. Keep work area clean and well lit during operation.
- b. Do not operate floor machine in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- c. Keep children and bystanders away while operating a floor machine to avoid potential injury.

## 2. ELECTRICAL SAFETY

- a. Floor machine plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded floor machines. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b. Avoid body contact with grounded surfaces, such as pipes, radiators, ranges, and refrigerators.
- c. Do not expose floor machines to rain or wet conditions. Water entering the floor machine will increase the risk of electric shock.
- d. Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the floor machine. Keep cord away from heat, oil, sharp edges, or moving parts. Damaged or entangled cords increase the risk of electric shock. Never operate this unit with a damaged cord.
- e. When operating a floor machine outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f. If operating a floor machine in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

## 3. PERSONAL SAFETY

- a. Stay alert, watch what you are doing, and use common sense when operating a floor machine. Do not use a floor machine while you are tired or under the influence of drugs, alcohol, or medication. Lack of attention while operating a floor machine may result in serious personal injury.



- b. Always use appropriate personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions can reduce personal injuries.
- c. Ensure the switch is in the off-position before connecting to power source, picking up, or carrying the tool. Carrying floor machines with your finger on the power switch may cause accidents.
- d. Make sure that you are balanced and stable before operation. Keep proper footing and balance at all times. This enables better control of the floor machine in unexpected situations.
- e. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- f. Always stay alert during machine operation. A lack of awareness while in use can cause severe injury.

#### **4. FLOOR MACHINE USE AND CARE**

- a. Use the correct floor machine for your application. The correct floor machine will do the job better and safer at the rate for which it was designed.
- b. Do not use the floor machine if the switch does not turn it on and off. Any floor machine that cannot be controlled with the switch is dangerous and must be repaired.
- c. Disconnect your floor machine from the power source before making any adjustments, changing accessories, or storing the unit. Such preventive safety measures reduce the risk of starting the floor machine accidentally.
- d. Store idle floor machines out of the reach of children and do not allow persons unfamiliar with the floor machine or these instructions to operate the floor machine.
- e. Maintain floor machines and accessories. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the floor machine's operation. If damaged, have the floor machine repaired before use. Accidents may be caused by poorly maintained floor machines.
- f. Only use the floor machine and accessories in accordance with these instructions. Always take into account the working conditions and the work to be performed. Use of the floor machine for unintended functions could result in hazardous situations.
- g. Keep handles and grasping surfaces dry, clean, and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

## 5. SERVICE

- a. Have your floor machine serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the floor machine is maintained.
- b. If the replacement of the power cord is necessary, this has to be done by the manufacturer or a designated service organization.

## SPECIFIC SAFETY RULES

- For your safety, do not plug in your floor machine or try to use it until it is completely assembled according to these instructions, and until you have completely read and understood this user manual.
- Always keep hands out of the path of floor machine. Avoid awkward hand positions where a sudden slip could cause your hand to move into the floor machine.
- Make sure there are no nails or foreign objects in the area that is being cleaned.
- Protect your eyes. Always wear safety goggles while machine is in use to avoid potential eye damage.
- Everyday glasses have only impact resistant lenses and ARE NOT safety glasses. For your own protection, make sure your safety glasses or goggles comply with the ANSI Z87.1 Safety Standard.
- Never use this floor machine without the provided GFCI.
- Always verify that the GFCI is working correctly before starting work.
- Replacement of the plug or the power cord shall always be carried out by the manufacturer or a designated service organization.
- Keep liquid clear of the parts of the machine and away from persons in the working area.

# TECHNICAL SPECIFICATIONS

Type	P17A, 978LAVP17A	P20A, 978LAVP20A	P20D, 978LAVP20D
Rated Voltage	110–120V~		
Rated Current	12A	15A	
Frequency	60Hz	50/60Hz	
Diameter of Accessories	17"	20"	20"
Protection Class	I		I

## NOTE:

V: Volts

A: Amperes

Hz: Hertz

~: Alternating Current

# INSTALLATION INSTRUCTIONS



1) Put on the handle and install the axle



2) Remove the wrench



3) Put the wrench through the support iron and install it again



4) Link motor to handle



5) Install the water tank accessories and install the water tank on the handle



6) The water pipe connects the water tank outlet and the base



7) Align the disc brush with the bottom clasp and rotate it anticlockwise to fix it

# OPERATION AND MAINTENANCE

**WARNING:** *Be sure to read and understand this manual in its entirety before operation. Failure to do so may result in damage or injury.*

## PROPER SETUP AND PREPARATION

Ensure that all components are assembled tightly and secured, and that power source matches voltage of your unit.

**WARNING:** *Do not operate this unit near flammable or combustible objects.*

## FOR SCRUBBING OR POLISHING

- Remove debris and any obstructions from cleaning surface before operation.
- Ensure that the unit is unplugged before attempting to attach floor brush. After unit is unplugged, place the handle in an upright position, and tilt machine backward until handle rests on the floor.
- After unit is unplugged and tilted backward, place pad driver on the three lugs on the motor drive adapter. Once in position, twist brush clockwise to lock into position.
- Ensure unit is unplugged before attempting to remove brush. Tilt unit backward with the handle in an upright position, identically to the steps to install the brush. After tilted backward, rotate the brush counterclockwise to remove. Always remove brush and pad driver when unit is not in use.
- Before operating, adjust handle height to a comfortable position, and lock into place with adjustment lock near the base of the unit. After handle is locked into place, press the red safety lock button located on the switch housing, and start unit by holding down the lever on either handle.
- Both hands should always be on the unit when in use.
- The machine will glide left or right when in operation, depending on the height of the handle. Raise the handle to move the unit to the right, and lower the handle to move the unit to the left. Releasing the handle levers will stop the unit immediately.

# SAFETY INFORMATION

*Failure to follow the instructions below could lead to damage or personal injury*

1. This unit is for commercial janitorial use only, you must be trained before operating unit.
2. Do not operate unit unless it is completely assembled, and you have ensured that every component is secured tightly.
3. This unit is intended for use with 110-120V power sources only. Always use a 3-wire grounded power supply.
4. Ensure that the unit is unplugged and dry before performing maintenance or repairs. Never leave the unit plugged into a power source while unattended.
5. Ensure that the unit is kept dry at all times during operation. Store unit in a dry area, and only perform cleaning with a dry cloth.
6. Do not use unit near flammable objects, liquids or vapors. Do not use flammable compounds to clean the unit.
7. Maintenance is to be performed by qualified professionals only.
8. Ensure that the unit's power cord is free of damage before each use. Do not run the machine over the power cord, and avoid abruptly pulling or tugging on the power cord while unit is in use.

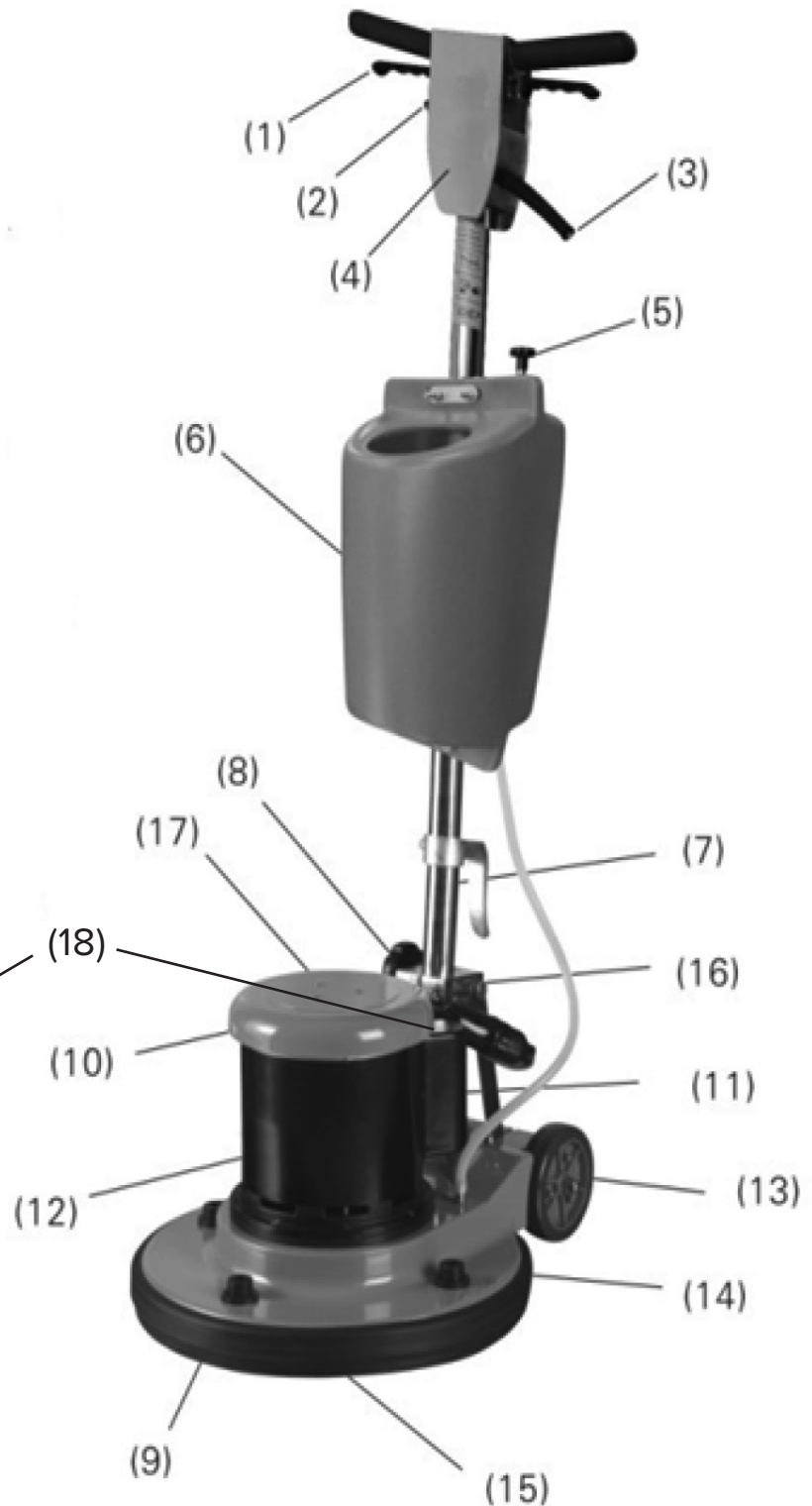
## ELECTRICAL GROUND INSTRUCTIONS

Ensure that this rotary floor machine is grounded while in use to protect the user from electric shock. The unit is equipped with a three-conductor cord and three-prong plug that is to be connected to a grounded electrical outlet. The green (or green and yellow) conductor in the power cord is the grounding wire - Ensure that this wire is only plugged in to the grounding pin of the plug.



# COMPONENT STRUCTURE

1. Switch Handle
2. Safety Switch
3. Power Cord
4. Aluminum Alloy Handle
5. Water Tank Drain Valve
6. Water Tank (Optional)
7. Cord Wrap
8. Handle Adjustment Knob
9. Chassis Colloidal Particles
10. Motor Cover
11. Capacitor and Cover
12. Gearbox
13. Wheel Coupling
14. Motor Base
15. Rubber Collision Guard
16. Handle Adjustment Clamp
17. M5\*35 Screw
18. Adjustment Button  
For Two Speed



# EXPLOSION DIAGRAM

1. Handle
2. Handle Cover
3. Switch Handle
4. Switch
5. Power Cord
6. Hand Wheel
7. Pad
8. Aluminum Column
9. Wrench
10. Buttress Iron
11. Wheel Axle
12. M6\*15 Outer Hexagon Bolt
13. Back Wheel
14. Wheel Axle
15. Upper Chassis
16. Lower Chassis
17. Anti Collision Rubber
18. Plastic Cover of Motor
19. Motor Cover
20. M4\*10 Large Pan Head Machine Wires
21. Motor
22. Coupling
23. B End Cover
24. Gearbox
25. M6\*25 Socket Head Cap Screw
26. Water Outlet
27. Compression Spring

