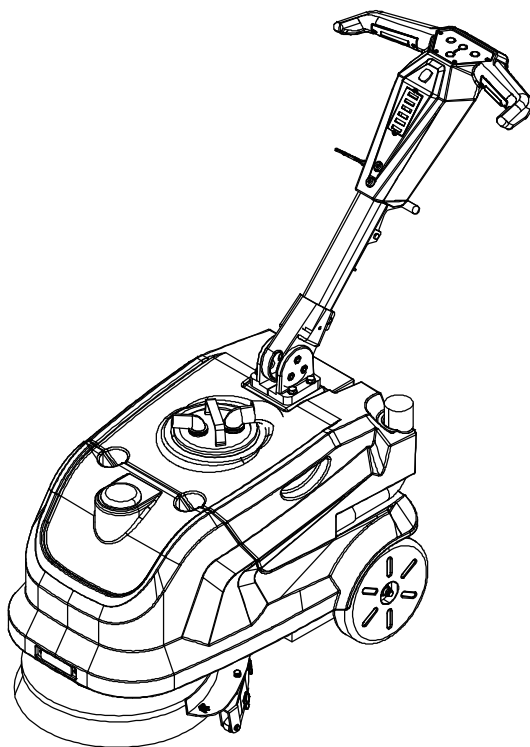


Compact Walk-behind Floor Scrubber
Applicable Model: G14B

User Manual

V1.0



REMINDER

Please check the machine carefully after unboxing.

If you find any abnormalities or missing parts, please contact the after-sales service team immediately.

Please follow the manual strictly and maintain the machine regularly according to the provided maintenance instructions.

APPLICATION SCENARIOS

The machine is suitable for commercial floor cleaning, especially for cleaning schools, hospitals, offices, shopping malls, supermarkets, and hotels.

The machine is recommended for cleaning indoor concrete floor, based floor, ceramic tiles, various types of stone floors, and other resilient floors, but it is not recommended for outdoor rough floors and large-area scenarios.

Please do not remove solid waste stains such as gravel, dust, paper scraps, and leaves, as well as perform deep cleaning tasks.

SYMBOLS INTRODUCTION IN THIS MANUAL



Attention:

Indicates that improper operation may cause serious injury

Indicates that improper operation may cause injury to minors or property damage.

Indicates that improper operation could lead to personal injury or death.

Indicates that improper operation may lead to property damage.

WARNING



Attention:

Do not operate the machine under the following conditions:

- Persons with physical or mental disabilities (including children) or persons without training and authorization are not allowed to use this product.
- Failure to read, understand and follow the instructions in this operation manual.
- After taking alcohol or drugs.
- This machine must not be used outside the range of usage conditions. The recommendations are as follows: room temperature between 0°C and 40°C, relative humidity between 30% and 95%.
- Located in areas where flammable vapors/liquids or flammable dusts are present.



Attention:

Do not use or pick up flammable materials or reactive metals.

- This machine is not equipped with an explosion-proof motor. The motor generates sparks during start-up and operation, which may cause a flash fire or explosion if the machine is used in areas where flammable vapors/liquids or flammable dusts are present.



Attention:

- Do not use acidic solutions, as this may damage the machine or endanger the operator.
- Do not touch the floor pad/disc brush with your hands when it's rotating for cleaning.
- Improper handling of the battery can lead to explosion or fire. The battery, please open the battery compartment for heat dissipation and keep away from any open flames.
- Before cleaning and maintaining the machine, please disconnect the battery and charger cables.
- Do not charge the battery with a damaged power cord.
- Do not modify the plug.
- If the charger power cord is damaged or broken, it must be replaced by the manufacturer or the technical agent or qualified person, to avoid danger.

SAFETY TIPS

1. Before Transporting and Installing the Machine:

- To ensure safety: Wear protective gloves and professional protective shoes.
- When assembling or not in use, please make sure to turn off the machine switch and disconnect the power supply.
- When assembling or not in use, please ensure that the machine's wheels and body are secured to prevent any unwanted movement.
- Do not park the machine on surfaces with a huge slope.
- Please use an inclined surface to unload the machine and avoid the wheels straight up and down and excessive bumps.

2. Before Operating the Machine:

- Please check if the machine body is complete, whether there is any damage or missing parts.
- Please check if the brush , squeegee, and rubber strips are properly installed.
- Before operating the machine, check for any potential risks of liquid leakage.

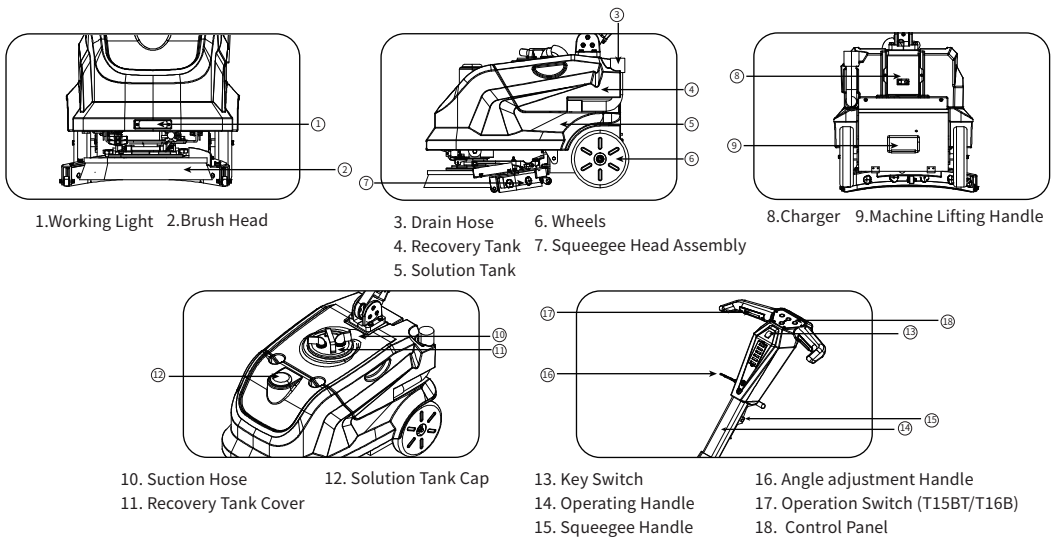
3. During Machine Operation:

- If the machine is damaged or fails to operate, please stop using it and contact the after-sales engineer in a timely manner.
- Pay attention to personal protective equipment; do not wear shorts, slippery shoes, or flip-flops.
- Avoid using flammable, acidic solutions, or cleaners with excessive foam to prevent defoliating agent foam from entering the vacuum motor inlet.
- Please use neutral cleaning agents; otherwise, it may cause chemical damage to the machine's materials or components.

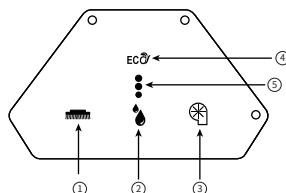
4. Before Leaving or Maintaining the Machine:

- Park the machine on an even floor surface.
- Before maintenance, please turn off the power supply.
- Do not use non-original accessories, as they may cause machine malfunction, personal injury, or property damage.
- No unauthorized disassembly of the machine is allowed, and all repairs must be carried out by authorized personnel.
- No unauthorized modifications to the machine are permitted.
- Please wear personal protective equipment when using/maintaining the machine.

MACHINE PARTS






CONTROL PANEL INTRODUCTION



1. Brush Button
2. Water Volume Control Button
3. Vacuum Motor Button
4. ECO Mode
5. Water Volume Indicator

BATTERY

Before first use, the battery must be fully charged

-  Attention: The room where the battery is charged must be well-ventilated, and the battery compartment should be opened to prevent the accumulation of any leaked gases.
-  Attention: The following operations must be performed by qualified personnel. Incorrect connection of the connectors may cause equipment failure.
-  Attention: The use of an incompatible battery charger may lead to battery damage and fire accidents.

BATTERY USAGE


1. Transport the machine to a well-ventilated area.
2. Park the machine on a dry and even floor surface, turn off the machine, open the electrical compartment cover, and remove the key.
3. Connect the charger's DC cord to the machine's battery charging port, then plug the AC power cord into a properly grounded wall socket.
4. After the battery is fully charged, a green light will come on, and it can be turned off. Depending on the type of battery, the longest charging cycle can reach up to 12 hours.
5. After charging the battery, be sure to disconnect the AC power cord before disconnecting the charger from the machine.

Battery Usage Precautions:

- Do not place the battery in environments prone to flammability, explosion, or excessive humidity to prevent explosions.
- Do not install, use, or store batteries in hazardous environments (electrified, damp, overheated, overly cold, strong magnetic fields).
- Do not touch the battery with wet hands to prevent electric shock.
- Do not clean the battery and terminals with flammable and volatile solvents (such as alcohol) to avoid fires. If cleaning is necessary, wipe with a dry cloth.
- If the battery exhibits noise, abnormal temperature, leakage, or other abnormalities, immediately stop charging or using it.
- Dispose of used batteries according to local regulations, fully discharge the battery before disposal, and wrap the terminals with insulating paper to prevent fires or explosions.
- For the charger, regularly check if the charger cable is damaged. Do not use the machine if it is damaged.
- Pay attention to the battery charge level each time you use it. If the battery charge is insufficient, charge it in time to prevent over-discharge of the battery.
- Before charging, turn off the key switch and do not turn on the machine.
- The normal charging time for a set of batteries is 10-12 hours. Ensure the battery is fully charged each time you use the charger to avoid battery damage.
- If the machine is not used for a long time, ensure the battery is fully charged and charge it once a month.
- If the battery charge level is at 30%, charge it in time and do not wait until the battery is completely drained.
- If the machine is not used for a long period, disconnect the power supply to prevent current discharge.
- Charge and store in a clean, ventilated, and dry place with a temperature of 0-35°C.

BRUSH INSTALLATION AND DISASSEMBLY

Install the Brush:

-  Attention: Wear personal protective equipment when performing operations and maintenance.
1. Adjust the operating handle to a vertical angle relative to the ground, press down on the operating handle with both hands, and rotate the scrubbing machine's squeegee head to the position of the squeegee head bracket.
 2. Place the three clips on the squeegee head bracket into the corresponding installation holes on the machine head and lock them by turning them counterclockwise.
 3. Position the machine upright so that the disc brush lies flat on the floor.
 4. To remove the disc brush or tray bracket, disconnect the power supply, then follow the above steps to place the machine on a flat surface and turn the scrubbing head board/tray bracket clockwise until it loosens.

Remove the Brush:

1. Turn on the power of the machine. Note: There is no need to start and operate the machine at this time.
2. Press down on the machine's operating handle with both hands and gently lift the brush plate, being careful not to lift the rubber rollers off the floor.
3. Press and hold the "ECO" button on the control panel for 5 seconds to initiate the machine's automatic brush removal.
4. Press the brush plate button, turn on the operation switch, and the brush plate will rotate and lock in place.

MACHINE OPERATION

⚠ Attention: Do not operate the machine without reading and understanding the operating manual.

- Before cleaning the floor, if you find paper scraps, a large amount of dust, beverage bottles, or other solid stains on the floor, please clean them up in advance to ensure there are no obstacles and garbage on the floor.
- Check if the battery is properly connected, if the battery power is normal, and meets the operational requirements.
- Check if the brush plate is excessively worn and needs to be replaced.
- Recovery head is excessively worn and needs to be replaced.
- Make sure the tank is empty, and the filter screen and float ball are installed and cleaned.
- Confirm whether the suction hose is correctly connected to the squeegee head and whether it is damaged. If not, connect it correctly or replace it.

Operation Steps:

1. Adjust the operating handle to a vertical angle with the ground (Figure 01-Figure 02), fill the clean water tank with clean water, ensuring the tank has sufficient clean water.
2. Lower the roller handle behind the operating handle until the squeegee head touches the floor (Figure 03-Figure 04).
3. Turn on the machine (Figure 05-Figure 06).
4. Press the switch button on the control panel, the icon will change from red to green. Press the water flow button, and when it turns green, increase the water flow as needed. Press the vacuum motor button, and the light will change from red to green, the machine is now fully activated but should not be moved (Figure 06-Figure 07).
5. Press the operating switch and move the machine to clean (Figure 08).

⚠ Attention: The above steps demonstrate the function of water absorption after floor cleaning. If you are only scrubbing and do not need to absorb water, you do not need to lower the rubber squeegee head, nor do you need to press the vacuum suction button.

⚠ Attention: The machine's squeegee assembly supports a 180° reverse rotation. Press down on the operating handle to lift the squeegee head, and the squeegee assembly will automatically rotate 180°. If you need to return to the initial state, simply move the machine forward to restore it to normal.

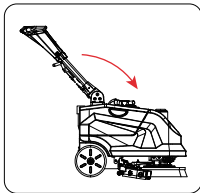


Figure 01

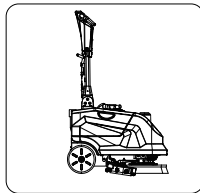


Figure02

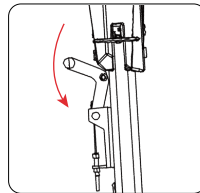


Figure03

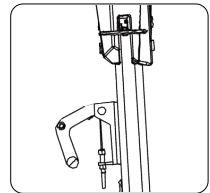


Figure04

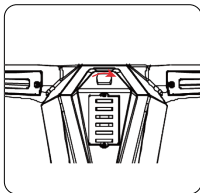


Figure05

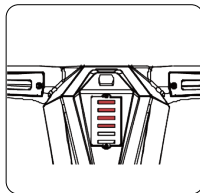


Figure06

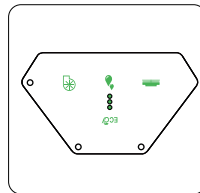


Figure07

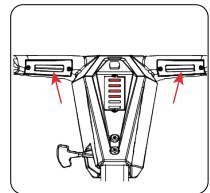


Figure08

During operation, please follow these instructions:

1. Overlap each cleaning path by 5 centimeters;
2. Keep the machine moving to prevent damage to the floor surface.
3. When cleaning along edges, be careful to avoid the machine hitting pillars and walls.
4. If there is too much foam in the recovery tank, drain the dirty water in time or add a defoamer.

Note: Excessive foam can cause the vacuum motor to fail.

ENDING WORK

After work is completed and before any maintenance is performed, please follow these instructions:

1. Release all start switches at the handle (Fig.01-Fig.02) .
2. Click the disk brush button, water volume button and vacuum suction motor button on the control panel. At this time, the color of the buttons changes from green to red. Turn off the key switch(Fig.02-Fig.03) at counter-clockwise direction.
3. Lift the squeegee lift handle (Fig.04) on the back of the operating handle and lift the scrubbing head from the floor.
4. Lift up the angle adjustment handle (Fig.05) to adjust the height, lift the handle to a vertical angle to the floor, and press down the machine to lift the scrubbing head to facilitate moving the machine (Fig.06) to the dedicated dirty water discharge area.
5. Drainage of the recovery tank: Remove the recovery tank drainage hose (Fig.07) from the back of the machine and open the pipe cover to drain downwards. Drain the solution tank: Rotate the drain plug of the solution tank (Fig.08) on the lower right side of the machine body in the forward direction (near the wheels), drain the clean water and tighten it again.
6. Transfer the machine to a fixed separate area for storage, keeping it dry and ventilated.

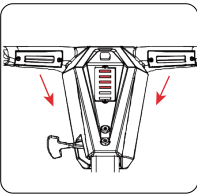


Figure 01

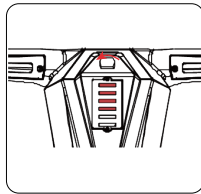


Figure 02

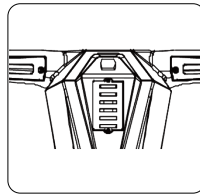


Figure 03

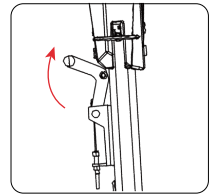


Figure 04

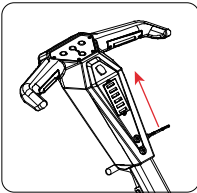


Figure 05

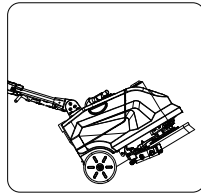


Figure 06

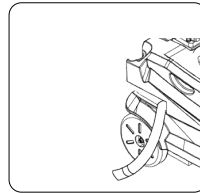


Figure 07

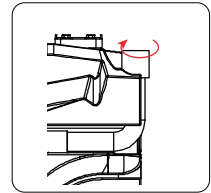


Figure 08

- ⚠ Attention: Wear personal protective gloves to prevent contact with cleaning agents.
- ⚠ Attention: Please move the machine to an area suitable for dirty water discharge to prevent

MACHINE MAINTENANCE

After daily use:

1. Empty and rinse the recovery tank.
2. Remove the filter screen and float ball and rinse them thoroughly.
3. Drain and rinse the recovery water tank again.
4. Clean the brush, removing any hair or stains caught in the bristles. Rinse and clean the rubber strip with a damp cloth to prevent accumulated dirt from sticking.
5. Wipe the body of the machine with a dry cloth.
6. Check the battery status and recharge if necessary.
7. Inspect the condition of the brushes and pads, and replace them if they are severely worn.

After Weekly Use:

Check the status of the automatic water-stop valve, in case it's stuck by accumulated stains.

TECHNICAL SPECIFICATIONS

| Parameters | International Units | G14B |
|-------------------------------------------|---------------------|--------------|
| Cleaning Width | mm | 350 |
| Scraper Width | mm | 450 |
| Machining Efficiency | m ² /h | 1597 |
| Maximum Driving Speed | km/h | - |
| Maximum Grade | % | 2 |
| Disk Brush (Diameter * Quantity) | mm (φ) | 330*1 |
| Operating Voltage | V | DC24 |
| Rated Total Power | W | 500 |
| Motor | W | - |
| Brush Motor | W | 250 |
| Vacuum Motor | W | 250 |
| Clear Water Tank | L | 12 |
| Sewage Tank | L | 16 |
| Net Weight | kg | 45 |
| Machine Dimensions (Excluding Scraper) | L*W*H (mm) | 715*480*1155 |

COMMON TROUBLESHOOTING

| Issue | Situation | Solution |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No power | The power supply is not connected | Connect the battery |
| Function failure | Vacuum motor not working Brush motor not working | Please charge the battery; or the contactor is not engaged Please check the vacuum motor and related circuitry, including the motor plug and relay Please check the brush motor and related circuitry, including the motor plug and relay |
| Machine is not releasing water or releasing very little water | Water volume icon is not lit The filter is clogged The clean water tank is empty | Touch the water volume icon Replace the filter Add water to the clean water tank |
| Poor suction effect | <ul style="list-style-type: none"> • Suction squeegee suction hole blockage • Wear of the rubber strip • Improper installation of the suction squeegee • Damage or looseness of the suction pipe • Suction pipe blockage • Looseness of the drainage pipe cover • The main body of the water absorption port is open • The dirty water tank is full • Blockage at the vacuum motor inlet • Loosening or detachment of the ventilation pipe | <ul style="list-style-type: none"> • Squeegee cleaning • Replace with new rubber strip • Ensure the squeegee is correctly installed • Replace the suction pipe or reinstall and secure the suction pipe • Inspect the hose and remove any blockages • Tighten the drainage pipe cap • Ensure the water absorption port cover is tightly closed and sealed • Empty the dirty water tank • Inspect the vacuum motor inlet, remove any blockages, clean the filter cotton - tighten • Reattach the ventilation hose securely |
| Fault light indicator. | <ul style="list-style-type: none"> • One long, one short • One long, two shorts • One long, three shorts • One long, four shorts • One long, five shorts • One long, six shorts • Two longs, two shorts • Two longs, three shorts • Two longs, four shorts • Two longs, five shorts • Two longs, six shorts • Three longs, two shorts • Three longs, three shorts • Three longs, four shorts • Three longs, five shorts • Three longs, six shorts • Four longs, two shorts • Four longs, three shorts • Four longs, four shorts • Four longs, five shorts • Four longs, six shorts • Four longs, seven shorts • Four longs, eight shorts • Four longs, nine shorts • Six longs, five shorts • Six longs, six shorts | <ul style="list-style-type: none"> • Panel and controller connection failure • Current sensor failure • Pre-charge failure • Electromagnetic valve open failure • Electromagnetic valve disconnection failure • Battery open circuit failure • EEPROM failure • Main relay disconnection failure • Main relay failure • Main relay engagement failure • Overvoltage failure • Undervoltage failure • Overheat failure • Brush motor overload failure • Vacuum motor overload failure • Brush motor open circuit failure • Vacuum motor open circuit failure • Brush motor short circuit failure • Vacuum motor short circuit failure • Parameter modification failure • DCF file corruption failure • Fuses not blown failure • CAN PDO communication failure • Severe undervoltage failure • CAN - Lithium battery disconnection failure • CAN - Low lithium battery charge failure |

